



1. (2 pontos) (a) Calcule o seguinte limite:

$$\lim_{x \rightarrow 0} \frac{\sqrt{x^2 + 9} - \sqrt{x + 9}}{5x}.$$

(b) Seja  $a$  um número diferente de zero. Calcule o seguinte limite:

$$\lim_{x \rightarrow 0} \frac{\text{sen}(3x)}{ax}.$$

(c) Determine valores de  $a, b$  de modo a que a função  $f$  seja contínua em  $x = 0$ , onde

$$f(x) = \begin{cases} \frac{\sqrt{x^2 + 9} - \sqrt{x + 9}}{5x} & \text{se } x > 0, \\ \frac{\text{sen}(3x)}{ax} & \text{se } x < 0, \\ b & \text{se } x = 0. \end{cases}$$

**Solução:**

(a) A função  $x \mapsto \sqrt{x^2 + 9} + \sqrt{x + 9}$  é igual a 6 em  $x = 0$  e contínua. Daí, é não-nula perto de 0 e

$$\begin{aligned} \lim_{x \rightarrow 0} \frac{\sqrt{x^2 + 9} - \sqrt{x + 9}}{5x} &= \lim_{x \rightarrow 0} \frac{(\sqrt{x^2 + 9} - \sqrt{x + 9})(\sqrt{x^2 + 9} + \sqrt{x + 9})}{5x(\sqrt{x^2 + 9} + \sqrt{x + 9})} \\ &= \lim_{x \rightarrow 0} \frac{x^2 + 9 - x - 9}{5x(\sqrt{x^2 + 9} + \sqrt{x + 9})} = \lim_{x \rightarrow 0} \frac{x(x - 1)}{30x} = \lim_{x \rightarrow 0} \frac{x - 1}{30} = -\frac{1}{30}. \end{aligned}$$

(b) Como  $\lim_{x \rightarrow 0} \text{sen } x/x = 1$ ,

$$\lim_{x \rightarrow 0} \frac{\text{sen}(3x)}{ax} = \lim_{x \rightarrow 0} \frac{\text{sen}(3x)}{3x} \cdot \frac{3}{a} = \frac{3}{a} \lim_{x \rightarrow 0} \frac{\text{sen}(3x)}{3x} = \frac{3}{a}$$

(c) Basta de achar  $a, b$  tal que  $\lim_{x \rightarrow 0^+} f(x) = \lim_{x \rightarrow 0^-} f(x) = f(0)$ . Pelas partes (a),(b),

$$\lim_{x \rightarrow 0^+} f(x) = -\frac{1}{30}, \quad \lim_{x \rightarrow 0^-} f(x) = \frac{3}{a}, \quad f(0) = b.$$

Daí,  $f$  é contínua em 0 se  $a = -90$  e  $b = -\frac{1}{30}$ .

2. (2.5 pontos) (a) Calcule a derivada da função

$$f(x) = \text{sen}(e^x) \cdot \ln(\cos x).$$

(b) Considere a curva definida implicitamente pela equação

$$\ln(y^2 + x^2) = xy + 1.$$

Determine a equação da reta tangente à curva no ponto  $(0, \sqrt{e})$ .

**Solução:**

(a) Pela regra do produto e da cadeia,

$$\begin{aligned} f'(x) &= \cos(e^x) \cdot (e^x)' \cdot \ln(\cos x) + \operatorname{sen}(e^x) \cdot \frac{1}{\cos x} \cdot (\cos x)' \\ &= \cos(e^x) \cdot e^x \cdot \ln(\cos x) - \operatorname{sen}(e^x) \cdot \frac{\operatorname{sen} x}{\cos x}. \end{aligned}$$

(b) Seja  $y$  uma função de  $x$ . Então,

$$\frac{d}{dx}(\ln(y^2 + x^2)) = \frac{1}{y^2 + x^2}(2yy' + 2x), \quad \frac{d}{dx}(xy + 1) = y + xy'.$$

Daí,  $\frac{2yy' + 2x}{y^2 + x^2} = y + xy'$  e, para  $x = 0$  e  $y = \sqrt{e}$ ,

$$\frac{2\sqrt{e}y'}{e} = \sqrt{e} \implies y'(0) = \frac{e}{2}.$$

Pela fórmula de uma reta de inclinação  $e/2$  passando por  $(0, \sqrt{e})$ ,

$$y = \frac{e}{2}x + \sqrt{e}.$$

3. (1.5 ponto) Considere o triângulo retângulo com catetos  $x$  e  $y$ . Sabemos que  $x$  aumenta a uma taxa de 3 cm/s, e que a área do triângulo permanece sempre igual a 6 cm<sup>2</sup>. A que taxa varia a hipotenusa do triângulo, quando  $x = 3$  cm?

**Solução:**

Pela identidade para a área de um triângulo retângulo, obtém-se que  $(xy)/2 = 6$  cm<sup>2</sup>. Se  $x = 3$  cm, então  $y = 12/x$  cm<sup>2</sup>/cm = 4 cm. Considerando  $x = x(t)$ ,  $y = y(t)$  como funções de  $t$ , a derivação  $d/dt$  implica que

$$\frac{d\frac{1}{2}xy}{dt} = \frac{1}{2}(x'y + xy') = 0.$$

Daí, para  $x = 3$  cm, obtém-se que

$$y' = -\frac{x'y}{x} = -\frac{3 \cdot 4 \text{ cm/s} \cdot \text{cm}}{3 \text{ cm}} = -4 \text{ cm/s}.$$

Para a hipotenusa  $h$  do triângulo vale  $h^2 = x^2 + y^2$  pelo teorema do Pitágoras. Considerando  $x = x(t)$ ,  $y = y(t)$  e  $h = h(t)$  como funções de  $t$ , a derivação  $d/dt$  implica que

$$\frac{dh^2}{dt} = 2hh' = \frac{dx^2 + y^2}{dt} = 2xx' + 2xy'.$$

Então, Se  $x = 3$  cm e  $y = 4$  cm, então  $h = 5$  cm. Daí,

$$h' = \frac{xx' + xy'}{h} = \frac{9 - 16 \text{ cm}^2/\text{s}}{5 \text{ cm}} = -\frac{7}{5} \text{ cm/s}.$$

**Solução alternativa:** Sejam  $x, y, h$  funções de  $t$ . Por  $(xy)/2 = 6$ , tem-se que  $y(t) = 12/x(t)$ , e por Pitágoras,  $h(t) = \sqrt{(x(t))^2 + 144/(x(t))^2}$ . Daí,

$$h' = \frac{2xx' - \frac{288}{x^3}x'}{2\sqrt{x^2 + \frac{144}{x^2}}} = \frac{x - \frac{144}{x^3}}{\sqrt{x^2 + \frac{144}{x^2}}}x'$$

## Cálculo 1 - P1

18 de Abril de 2017(continuação)

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Se  $x = 3$  cm e  $x' = 3$  cm/s, então

$$h' = \frac{3 - \frac{144}{27}}{\sqrt{9 + 16}} \cdot 3 \text{ cm/s} = \frac{9 - 16}{5} \text{ cm/s} = -\frac{7}{5} \text{ cm/s}.$$

**Prova 1: Questões de Múltipla Escolha**

1. Considere  $f(x) = \frac{7x^3 + x^2 + 2x + 3}{4x + 6x^3}$ .  
Sejam  $r$  a assíntota vertical e  $s$  a assíntota horizontal ao gráfico de  $y = f(x)$ . As retas  $r$  e  $s$  se interceptam no ponto  $(a, b)$ . Então  $9a + 4b$  é igual a:
  - (a)  $\frac{14}{3}$ .
  - (b) 5.
  - (c)  $\frac{13}{3}$ .
  - (d)  $\frac{31}{6}$ .
2. O  $\lim_{x \rightarrow 3} \frac{|x-3|}{x-3} + 7$ :
  - (a) não existe, nem é igual a  $\infty$ .
  - (b) é igual a  $\infty$ .
  - (c) é igual a 8.
  - (d) é igual a 6.
3. A reta tangente ao gráfico da função  $y = x^3 - 2$  no ponto onde  $x = 3$  passa no ponto:
  - (a) (5, 79).
  - (b) (5, 81).
  - (c) (5, 78).
  - (d) (5, 76).
4. O número de soluções reais da equação  $7x^5 + 8x + 4 = 0$  é:
  - (a) 1.
  - (b) 0.
  - (c) 3.
  - (d) 5.
5. A função  $f(x) = 7x^2 - x^4$  possui:
  - (a) 2 máximos locais e 1 mínimo local.
  - (b) 1 máximo local e 1 mínimo local.
  - (c) 2 mínimos locais e 2 máximos locais.
  - (d) 3 máximos locais e 1 mínimo local.
6. Considere  $f(x) = 8x + \arctan(x)$  ( $\arctan$  é a função inversa de  $\tan$ ). Então  $f'(0)$  é igual a:
  - (a) 9.
  - (b) 8.
  - (c) 7.
  - (d)  $\frac{17}{2}$ .
7. Seja  $f$  uma função diferenciável com  $f(4) = 8$  e  $f'(4) = 5$ . Se  $h(x) = f(x)e^{f(x)}$ , então  $h'(4)$  é igual a:
  - (a)  $45e^8$ .
  - (b)  $44e^8$ .
  - (c)  $5e^8 + 8e^5$ .
  - (d)  $6e^8 + 7e^5$ .
8. A aresta de um cubo aumenta a uma taxa constante de  $\frac{10}{3} \text{ cm/s}$ . Determine a taxa de variação da área da superfície total do cubo no momento em que a medida da aresta é  $\frac{7}{4} \text{ cm}$ .
  - (a)  $70 \text{ cm}^2/\text{s}$ .
  - (b)  $72 \text{ cm}^2/\text{s}$ .
  - (c)  $68 \text{ cm}^2/\text{s}$ .
  - (d)  $67 \text{ cm}^2/\text{s}$ .

## Gabarito dos 1329 Testes Gerados

Teste 001: 1C 2C 3D 4A 5C 6B 7B 8B  
Teste 002: 1C 2A 3C 4B 5B 6C 7D 8B  
Teste 003: 1D 2D 3C 4B 5D 6B 7C 8B  
Teste 004: 1B 2A 3D 4A 5A 6B 7D 8D  
Teste 005: 1D 2B 3D 4D 5A 6B 7B 8C  
Teste 006: 1C 2C 3B 4B 5C 6D 7A 8D  
Teste 007: 1A 2C 3B 4B 5B 6C 7A 8C  
Teste 008: 1C 2D 3D 4B 5C 6D 7A 8C  
Teste 009: 1B 2D 3D 4D 5B 6B 7A 8C  
Teste 010: 1A 2D 3A 4B 5D 6C 7B 8B  
Teste 011: 1D 2D 3D 4A 5A 6C 7A 8B  
Teste 012: 1D 2A 3B 4C 5C 6A 7D 8C  
Teste 013: 1D 2B 3C 4B 5C 6B 7D 8A  
Teste 014: 1A 2A 3B 4B 5A 6B 7D 8C  
Teste 015: 1B 2D 3A 4D 5A 6D 7A 8C  
Teste 016: 1C 2C 3D 4D 5D 6A 7B 8C  
Teste 017: 1D 2D 3A 4A 5A 6B 7B 8C  
Teste 018: 1A 2D 3B 4A 5C 6C 7B 8B  
Teste 019: 1B 2D 3A 4C 5C 6D 7B 8D  
Teste 020: 1B 2B 3B 4D 5D 6A 7D 8C  
Teste 021: 1B 2D 3B 4C 5B 6C 7D 8D  
Teste 022: 1B 2C 3C 4A 5B 6D 7B 8A  
Teste 023: 1B 2C 3B 4A 5A 6C 7B 8C  
Teste 024: 1D 2A 3B 4B 5C 6D 7D 8B  
Teste 025: 1A 2A 3C 4D 5D 6D 7C 8A  
Teste 026: 1C 2C 3D 4D 5C 6D 7A 8B  
Teste 027: 1B 2C 3B 4B 5A 6C 7D 8A  
Teste 028: 1D 2B 3C 4B 5A 6A 7B 8D  
Teste 029: 1B 2C 3D 4C 5A 6B 7D 8C  
Teste 030: 1C 2D 3D 4A 5C 6A 7B 8C  
Teste 031: 1D 2B 3A 4D 5B 6A 7D 8A  
Teste 032: 1D 2A 3C 4B 5B 6D 7A 8C  
Teste 033: 1B 2A 3D 4A 5A 6B 7C 8C  
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Teste 035: 1D 2C 3C 4A 5C 6A 7A 8B  
Teste 036: 1C 2B 3A 4A 5A 6B 7B 8C  
Teste 037: 1D 2B 3C 4D 5C 6A 7D 8C  
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Teste 041: 1A 2D 3B 4D 5A 6B 7C 8D  
Teste 042: 1C 2A 3C 4B 5C 6A 7B 8B  
Teste 043: 1D 2D 3C 4A 5A 6A 7D 8C  
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Teste 052: 1C 2C 3C 4A 5A 6D 7A 8C  
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Teste 059: 1C 2C 3D 4B 5A 6B 7D 8A  
Teste 060: 1B 2D 3B 4C 5B 6C 7C 8D  
Teste 061: 1D 2D 3A 4B 5C 6B 7A 8A  
Teste 062: 1C 2A 3B 4C 5C 6B 7B 8A  
Teste 063: 1C 2C 3B 4D 5A 6A 7C 8A  
Teste 064: 1D 2B 3C 4D 5D 6B 7B 8A  
Teste 065: 1D 2B 3C 4D 5D 6C 7A 8C  
Teste 066: 1A 2D 3A 4D 5A 6D 7B 8B  
Teste 067: 1D 2D 3A 4D 5B 6A 7B 8A  
Teste 068: 1A 2D 3B 4A 5D 6B 7A 8C  
Teste 069: 1B 2D 3C 4B 5A 6A 7B 8D  
Teste 070: 1C 2D 3A 4C 5D 6A 7B 8B  
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Teste 078: 1A 2B 3D 4D 5A 6B 7B 8D  
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Teste 080: 1C 2D 3A 4C 5D 6C 7B 8B  
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Teste 089: 1A 2B 3B 4D 5A 6C 7B 8C  
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Teste 092: 1D 2A 3B 4C 5C 6B 7B 8D  
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Teste 100: 1D 2C 3B 4D 5B 6D 7B 8C  
Teste 101: 1A 2A 3B 4D 5C 6A 7B 8B  
Teste 102: 1D 2D 3C 4B 5C 6A 7D 8A  
Teste 103: 1D 2C 3C 4B 5C 6A 7A 8A  
Teste 104: 1C 2C 3A 4D 5A 6C 7A 8B  
Teste 105: 1B 2C 3D 4C 5A 6C 7B 8D  
Teste 106: 1B 2B 3C 4D 5D 6B 7C 8D  
Teste 107: 1D 2B 3B 4D 5C 6C 7A 8D  
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Teste 210: 1A 2C 3B 4D 5A 6A 7D 8C  
Teste 211: 1C 2A 3B 4C 5A 6B 7C 8D  
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Teste 214: 1A 2B 3C 4C 5D 6A 7D 8A  
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Teste 216: 1A 2B 3A 4B 5A 6B 7C 8C  
Teste 217: 1A 2B 3D 4C 5D 6A 7D 8C  
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Teste 219: 1A 2A 3D 4C 5B 6A 7D 8D  
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Teste 221: 1D 2C 3D 4A 5B 6D 7C 8A  
Teste 222: 1A 2C 3D 4C 5D 6B 7D 8B  
Teste 223: 1A 2A 3C 4C 5B 6B 7D 8A  
Teste 224: 1B 2D 3B 4A 5B 6C 7C 8C  
Teste 225: 1D 2C 3A 4C 5B 6D 7D 8A  
Teste 226: 1C 2B 3C 4C 5D 6D 7D 8A  
Teste 227: 1D 2A 3C 4C 5B 6B 7D 8B  
Teste 228: 1D 2A 3A 4D 5B 6C 7A 8D  
Teste 229: 1A 2B 3D 4B 5D 6B 7D 8C  
Teste 230: 1B 2D 3B 4D 5A 6D 7A 8B  
Teste 231: 1B 2B 3C 4D 5B 6A 7A 8C  
Teste 232: 1C 2D 3B 4B 5D 6D 7A 8B  
Teste 233: 1D 2D 3C 4D 5B 6C 7A 8A



Teste 234: 1D 2C 3A 4C 5C 6D 7B 8A  
Teste 235: 1B 2A 3A 4D 5A 6D 7B 8C  
Teste 236: 1C 2C 3B 4B 5B 6C 7A 8B  
Teste 237: 1D 2D 3A 4C 5A 6A 7D 8B  
Teste 238: 1D 2A 3B 4D 5C 6A 7A 8B  
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Teste 240: 1A 2A 3C 4C 5D 6D 7A 8D  
Teste 241: 1C 2B 3C 4B 5D 6D 7D 8C  
Teste 242: 1D 2A 3B 4B 5D 6A 7D 8B  
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Teste 244: 1D 2D 3A 4C 5B 6C 7B 8A  
Teste 245: 1A 2B 3D 4C 5D 6B 7A 8B  
Teste 246: 1C 2C 3A 4C 5D 6A 7B 8D  
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Teste 248: 1D 2A 3D 4B 5C 6C 7D 8A  
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Teste 250: 1B 2A 3C 4D 5B 6D 7A 8C  
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Teste 252: 1D 2A 3B 4B 5D 6A 7D 8C  
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Teste 254: 1D 2B 3D 4D 5C 6B 7C 8C  
Teste 255: 1B 2A 3C 4C 5A 6C 7D 8D  
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Teste 260: 1C 2A 3B 4C 5A 6C 7B 8B  
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Teste 568: 1B 2A 3A 4A 5B 6B 7D 8C  
Teste 569: 1D 2C 3A 4D 5B 6C 7D 8C  
Teste 570: 1D 2C 3B 4A 5D 6B 7D 8C  
Teste 571: 1D 2C 3A 4B 5B 6B 7D 8D  
Teste 572: 1D 2D 3B 4B 5A 6A 7B 8A  
Teste 573: 1D 2B 3B 4A 5A 6D 7A 8C  
Teste 574: 1C 2D 3D 4A 5A 6A 7B 8C  
Teste 575: 1D 2C 3C 4A 5D 6B 7B 8B  
Teste 576: 1B 2A 3A 4D 5B 6A 7B 8D  
Teste 577: 1D 2D 3D 4B 5A 6A 7A 8B  
Teste 578: 1C 2B 3C 4B 5A 6C 7A 8D  
Teste 579: 1C 2A 3A 4D 5A 6C 7C 8B  
Teste 580: 1A 2C 3A 4B 5D 6C 7A 8D  
Teste 581: 1D 2D 3C 4C 5B 6C 7D 8B  
Teste 582: 1B 2D 3A 4D 5D 6C 7A 8A  
Teste 583: 1D 2C 3A 4C 5B 6C 7B 8B  
Teste 584: 1D 2C 3C 4A 5D 6B 7A 8D  
Teste 585: 1B 2B 3D 4D 5C 6D 7C 8A  
Teste 586: 1C 2B 3B 4D 5A 6C 7B 8C  
Teste 587: 1C 2A 3B 4B 5D 6A 7D 8D

Teste 588: 1A 2B 3B 4A 5B 6A 7C 8D  
Teste 589: 1A 2A 3A 4B 5B 6C 7C 8C  
Teste 590: 1B 2C 3A 4C 5D 6C 7C 8B  
Teste 591: 1B 2C 3A 4C 5C 6B 7A 8B  
Teste 592: 1C 2C 3C 4A 5A 6B 7A 8D  
Teste 593: 1C 2C 3A 4C 5B 6A 7B 8D  
Teste 594: 1A 2C 3B 4B 5A 6C 7B 8A  
Teste 595: 1D 2D 3A 4C 5B 6B 7B 8C  
Teste 596: 1A 2D 3B 4B 5D 6A 7D 8B  
Teste 597: 1D 2B 3A 4A 5A 6B 7C 8B  
Teste 598: 1D 2C 3B 4C 5D 6D 7C 8A  
Teste 599: 1B 2B 3C 4C 5D 6C 7B 8A  
Teste 600: 1C 2B 3D 4D 5B 6B 7C 8A  
Teste 601: 1A 2A 3C 4B 5B 6B 7C 8C  
Teste 602: 1C 2A 3D 4D 5A 6A 7C 8B  
Teste 603: 1B 2C 3A 4A 5D 6B 7C 8D  
Teste 604: 1A 2A 3D 4C 5A 6D 7C 8C  
Teste 605: 1D 2B 3B 4B 5C 6D 7D 8C  
Teste 606: 1C 2B 3C 4D 5D 6A 7D 8B  
Teste 607: 1C 2A 3A 4B 5D 6A 7C 8D  
Teste 608: 1B 2A 3D 4D 5C 6D 7A 8A  
Teste 609: 1D 2D 3A 4B 5C 6D 7A 8A  
Teste 610: 1B 2D 3A 4D 5B 6D 7A 8B  
Teste 611: 1A 2A 3D 4C 5C 6B 7B 8D  
Teste 612: 1D 2B 3A 4D 5A 6B 7D 8B  
Teste 613: 1D 2C 3A 4A 5B 6D 7D 8C  
Teste 614: 1B 2D 3D 4C 5D 6C 7C 8B  
Teste 615: 1A 2C 3B 4D 5B 6A 7D 8D  
Teste 616: 1D 2D 3B 4C 5C 6B 7A 8A  
Teste 617: 1D 2A 3D 4C 5D 6A 7C 8C  
Teste 618: 1C 2B 3B 4A 5B 6C 7A 8C  
Teste 619: 1B 2A 3C 4C 5A 6C 7A 8A  
Teste 620: 1C 2C 3D 4C 5D 6A 7D 8A  
Teste 621: 1B 2C 3C 4C 5B 6B 7A 8A  
Teste 622: 1C 2C 3C 4B 5A 6B 7B 8D  
Teste 623: 1B 2A 3C 4C 5C 6B 7D 8D  
Teste 624: 1B 2C 3A 4B 5A 6C 7A 8B  
Teste 625: 1A 2B 3D 4B 5A 6D 7B 8C  
Teste 626: 1C 2A 3B 4A 5B 6D 7A 8D  
Teste 627: 1B 2C 3C 4D 5A 6A 7D 8D  
Teste 628: 1B 2A 3D 4D 5D 6A 7C 8C  
Teste 629: 1D 2C 3D 4B 5C 6D 7C 8B  
Teste 630: 1C 2D 3C 4B 5A 6A 7C 8A  
Teste 631: 1D 2B 3B 4D 5A 6C 7A 8D  
Teste 632: 1A 2B 3B 4C 5D 6B 7C 8C  
Teste 633: 1A 2A 3D 4C 5B 6D 7C 8B  
Teste 634: 1C 2B 3A 4A 5C 6A 7B 8C  
Teste 635: 1B 2B 3B 4D 5A 6C 7D 8A  
Teste 636: 1B 2C 3D 4A 5D 6B 7A 8C  
Teste 637: 1D 2B 3A 4A 5D 6B 7B 8D  
Teste 638: 1B 2A 3A 4C 5C 6B 7A 8D  
Teste 639: 1B 2D 3C 4B 5D 6D 7C 8B  
Teste 640: 1D 2C 3B 4B 5C 6A 7B 8A  
Teste 641: 1D 2A 3B 4C 5D 6C 7C 8B  
Teste 642: 1D 2A 3B 4B 5D 6A 7D 8C  
Teste 643: 1D 2B 3D 4D 5A 6C 7A 8B  
Teste 644: 1C 2A 3C 4D 5C 6A 7A 8B  
Teste 645: 1A 2C 3C 4D 5B 6B 7A 8D  
Teste 646: 1A 2C 3C 4D 5B 6A 7D 8D

Teste 647: 1C 2D 3B 4C 5D 6B 7A 8A  
Teste 648: 1B 2C 3A 4C 5B 6B 7A 8A  
Teste 649: 1C 2B 3C 4C 5D 6D 7D 8B  
Teste 650: 1C 2C 3B 4D 5C 6A 7D 8A  
Teste 651: 1C 2D 3D 4C 5C 6D 7A 8B  
Teste 652: 1D 2D 3C 4D 5B 6C 7C 8A  
Teste 653: 1C 2B 3B 4B 5C 6D 7D 8C  
Teste 654: 1D 2A 3C 4B 5B 6A 7C 8A  
Teste 655: 1D 2A 3D 4D 5A 6A 7C 8D  
Teste 656: 1A 2A 3B 4A 5B 6D 7B 8C  
Teste 657: 1B 2C 3C 4D 5D 6C 7B 8A  
Teste 658: 1B 2C 3B 4A 5A 6A 7C 8C  
Teste 659: 1C 2C 3D 4A 5B 6C 7A 8A  
Teste 660: 1B 2B 3B 4A 5D 6D 7A 8A  
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Teste 662: 1A 2A 3C 4D 5B 6B 7C 8B  
Teste 663: 1C 2A 3A 4C 5D 6B 7B 8B  
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Teste 665: 1A 2C 3C 4D 5B 6D 7A 8D  
Teste 666: 1A 2A 3D 4C 5A 6D 7B 8B  
Teste 667: 1B 2C 3D 4A 5B 6C 7B 8C  
Teste 668: 1D 2A 3B 4A 5B 6B 7A 8D  
Teste 669: 1B 2D 3A 4B 5C 6B 7A 8D  
Teste 670: 1B 2C 3D 4D 5A 6A 7D 8A  
Teste 671: 1B 2C 3D 4B 5B 6C 7A 8C  
Teste 672: 1A 2A 3D 4B 5A 6B 7C 8D  
Teste 673: 1C 2B 3D 4D 5D 6B 7B 8A  
Teste 674: 1D 2A 3C 4C 5A 6A 7D 8C  
Teste 675: 1C 2A 3A 4D 5B 6A 7B 8B  
Teste 676: 1A 2A 3B 4D 5C 6C 7C 8A  
Teste 677: 1D 2D 3D 4B 5B 6A 7A 8B  
Teste 678: 1A 2D 3B 4B 5D 6B 7D 8C  
Teste 679: 1D 2B 3A 4D 5A 6C 7C 8A  
Teste 680: 1C 2A 3A 4A 5B 6B 7D 8D  
Teste 681: 1D 2C 3C 4D 5A 6D 7C 8A  
Teste 682: 1D 2D 3B 4D 5C 6A 7A 8A  
Teste 683: 1C 2D 3D 4D 5C 6B 7B 8B  
Teste 684: 1D 2D 3A 4A 5B 6C 7B 8B  
Teste 685: 1D 2A 3A 4A 5B 6D 7D 8B  
Teste 686: 1A 2A 3D 4D 5C 6A 7B 8C  
Teste 687: 1A 2D 3D 4A 5A 6B 7B 8C  
Teste 688: 1C 2B 3B 4C 5A 6D 7A 8D  
Teste 689: 1D 2C 3D 4A 5D 6C 7A 8A  
Teste 690: 1A 2D 3D 4B 5B 6C 7B 8D  
Teste 691: 1C 2C 3D 4C 5A 6D 7A 8A  
Teste 692: 1B 2D 3C 4D 5C 6A 7A 8A  
Teste 693: 1A 2D 3C 4C 5A 6A 7B 8C  
Teste 694: 1B 2A 3C 4B 5A 6B 7C 8C  
Teste 695: 1D 2D 3A 4D 5B 6B 7A 8B  
Teste 696: 1B 2A 3C 4A 5A 6D 7B 8D  
Teste 697: 1C 2A 3A 4C 5B 6B 7B 8C  
Teste 698: 1A 2A 3B 4B 5A 6B 7D 8D  
Teste 699: 1C 2C 3B 4C 5D 6A 7D 8B  
Teste 700: 1D 2C 3C 4C 5D 6A 7B 8B  
Teste 701: 1C 2A 3A 4D 5C 6A 7B 8C  
Teste 702: 1D 2C 3C 4D 5C 6D 7B 8A  
Teste 703: 1B 2A 3B 4C 5C 6B 7D 8A  
Teste 704: 1C 2A 3C 4B 5D 6A 7B 8C  
Teste 705: 1D 2D 3B 4D 5A 6B 7B 8A



Teste 706: 1D 2D 3D 4A 5A 6A 7C 8C  
Teste 707: 1D 2A 3D 4B 5C 6B 7A 8A  
Teste 708: 1C 2C 3A 4A 5B 6A 7C 8D  
Teste 709: 1A 2A 3D 4D 5A 6C 7D 8B  
Teste 710: 1A 2D 3B 4B 5B 6C 7A 8C  
Teste 711: 1B 2B 3C 4B 5D 6D 7C 8A  
Teste 712: 1B 2B 3C 4D 5D 6D 7B 8A  
Teste 713: 1D 2C 3C 4C 5B 6A 7D 8B  
Teste 714: 1D 2C 3A 4C 5C 6B 7A 8D  
Teste 715: 1A 2D 3D 4C 5B 6A 7A 8B  
Teste 716: 1B 2A 3A 4A 5D 6C 7D 8B  
Teste 717: 1B 2A 3D 4B 5C 6D 7B 8C  
Teste 718: 1D 2A 3C 4B 5A 6B 7B 8C  
Teste 719: 1C 2A 3C 4D 5C 6D 7D 8B  
Teste 720: 1D 2D 3B 4A 5C 6D 7B 8B  
Teste 721: 1C 2B 3B 4D 5A 6B 7D 8D  
Teste 722: 1D 2B 3D 4B 5D 6B 7A 8C  
Teste 723: 1D 2A 3B 4A 5D 6C 7B 8C  
Teste 724: 1B 2A 3A 4B 5D 6A 7C 8B  
Teste 725: 1D 2D 3A 4A 5A 6C 7B 8C  
Teste 726: 1D 2C 3B 4D 5C 6A 7D 8C  
Teste 727: 1C 2C 3B 4A 5C 6A 7A 8C  
Teste 728: 1B 2C 3D 4C 5D 6C 7A 8D  
Teste 729: 1C 2A 3C 4A 5B 6D 7C 8B  
Teste 730: 1B 2D 3D 4B 5A 6A 7B 8A  
Teste 731: 1A 2A 3A 4D 5B 6C 7B 8D  
Teste 732: 1B 2C 3A 4D 5A 6B 7A 8B  
Teste 733: 1B 2B 3D 4B 5C 6C 7D 8C  
Teste 734: 1A 2C 3C 4D 5A 6D 7A 8D  
Teste 735: 1D 2A 3D 4B 5D 6B 7A 8B  
Teste 736: 1A 2D 3C 4D 5A 6D 7C 8A  
Teste 737: 1D 2A 3C 4D 5B 6C 7B 8C  
Teste 738: 1B 2A 3D 4D 5A 6D 7B 8B  
Teste 739: 1A 2A 3C 4A 5B 6D 7C 8B  
Teste 740: 1A 2D 3C 4D 5D 6A 7A 8B  
Teste 741: 1B 2C 3C 4A 5A 6C 7B 8A  
Teste 742: 1B 2B 3C 4C 5C 6A 7A 8B  
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Teste 744: 1B 2B 3D 4A 5D 6A 7A 8D  
Teste 745: 1B 2C 3D 4B 5D 6C 7A 8D  
Teste 746: 1A 2B 3B 4A 5C 6D 7C 8C  
Teste 747: 1A 2A 3A 4B 5B 6B 7C 8D  
Teste 748: 1B 2C 3B 4D 5D 6A 7D 8C  
Teste 749: 1B 2C 3C 4B 5B 6D 7D 8C  
Teste 750: 1C 2A 3B 4B 5C 6C 7B 8D  
Teste 751: 1A 2A 3B 4A 5B 6D 7B 8C  
Teste 752: 1C 2A 3D 4B 5A 6C 7B 8C  
Teste 753: 1D 2B 3C 4D 5D 6A 7B 8C  
Teste 754: 1B 2D 3B 4A 5C 6D 7D 8C  
Teste 755: 1A 2D 3A 4D 5A 6B 7D 8C  
Teste 756: 1A 2C 3C 4D 5B 6B 7B 8C  
Teste 757: 1B 2B 3D 4B 5C 6C 7C 8A  
Teste 758: 1C 2A 3B 4A 5B 6D 7B 8A  
Teste 759: 1C 2D 3C 4A 5B 6C 7D 8A  
Teste 760: 1D 2D 3D 4C 5C 6A 7A 8A  
Teste 761: 1C 2B 3B 4C 5A 6C 7D 8B  
Teste 762: 1C 2B 3D 4A 5C 6C 7B 8B  
Teste 763: 1B 2C 3A 4A 5A 6C 7B 8B  
Teste 764: 1A 2A 3C 4B 5D 6B 7B 8A

Teste 765: 1A 2B 3A 4A 5B 6C 7B 8D  
Teste 766: 1C 2C 3C 4B 5A 6D 7A 8A  
Teste 767: 1B 2D 3A 4A 5D 6C 7A 8B  
Teste 768: 1B 2A 3D 4D 5C 6D 7A 8B  
Teste 769: 1B 2A 3B 4D 5C 6B 7A 8D  
Teste 770: 1C 2D 3D 4B 5A 6B 7D 8C  
Teste 771: 1D 2C 3A 4D 5A 6A 7D 8B  
Teste 772: 1B 2A 3D 4D 5C 6C 7B 8C  
Teste 773: 1B 2B 3B 4D 5C 6D 7C 8C  
Teste 774: 1D 2A 3D 4C 5A 6C 7B 8C  
Teste 775: 1B 2A 3D 4D 5D 6C 7A 8D  
Teste 776: 1C 2A 3B 4C 5C 6A 7A 8D  
Teste 777: 1A 2D 3D 4B 5A 6C 7C 8D  
Teste 778: 1D 2D 3D 4C 5B 6A 7C 8A  
Teste 779: 1D 2D 3B 4D 5C 6A 7C 8B  
Teste 780: 1A 2D 3D 4A 5B 6A 7C 8C  
Teste 781: 1D 2B 3B 4A 5A 6A 7D 8D  
Teste 782: 1D 2A 3D 4B 5B 6B 7C 8D  
Teste 783: 1B 2D 3B 4A 5B 6C 7A 8D  
Teste 784: 1C 2A 3A 4B 5C 6D 7B 8A  
Teste 785: 1A 2C 3B 4D 5A 6A 7D 8C  
Teste 786: 1A 2A 3C 4A 5D 6D 7B 8C  
Teste 787: 1B 2B 3B 4A 5A 6D 7A 8C  
Teste 788: 1D 2D 3A 4D 5A 6B 7A 8C  
Teste 789: 1D 2B 3D 4D 5A 6B 7C 8B  
Teste 790: 1A 2B 3A 4D 5D 6C 7C 8C  
Teste 791: 1B 2A 3A 4D 5C 6C 7C 8A  
Teste 792: 1D 2C 3D 4B 5D 6A 7C 8C  
Teste 793: 1B 2B 3B 4C 5C 6D 7D 8D  
Teste 794: 1D 2A 3D 4D 5A 6A 7C 8C  
Teste 795: 1C 2D 3C 4C 5B 6B 7B 8A  
Teste 796: 1B 2A 3B 4C 5A 6B 7C 8A  
Teste 797: 1D 2C 3C 4A 5D 6B 7B 8C  
Teste 798: 1D 2B 3A 4D 5B 6C 7A 8A  
Teste 799: 1A 2D 3A 4D 5D 6C 7C 8C  
Teste 800: 1A 2D 3B 4B 5C 6C 7B 8D  
Teste 801: 1C 2C 3D 4A 5A 6B 7B 8A  
Teste 802: 1B 2A 3A 4A 5C 6B 7C 8C  
Teste 803: 1A 2C 3A 4B 5D 6B 7D 8D  
Teste 804: 1C 2D 3A 4C 5C 6A 7D 8A  
Teste 805: 1D 2A 3B 4A 5C 6A 7B 8B  
Teste 806: 1B 2C 3D 4A 5A 6C 7D 8A  
Teste 807: 1D 2B 3D 4D 5C 6A 7B 8B  
Teste 808: 1B 2C 3B 4C 5D 6C 7D 8D  
Teste 809: 1A 2C 3C 4D 5A 6C 7A 8A  
Teste 810: 1C 2B 3C 4C 5D 6A 7A 8D  
Teste 811: 1B 2B 3B 4D 5D 6D 7C 8A  
Teste 812: 1A 2D 3C 4C 5A 6A 7D 8D  
Teste 813: 1B 2B 3C 4A 5A 6B 7A 8D  
Teste 814: 1B 2C 3B 4D 5D 6B 7D 8B  
Teste 815: 1C 2D 3A 4B 5A 6D 7B 8B  
Teste 816: 1B 2D 3C 4D 5D 6A 7B 8A  
Teste 817: 1D 2D 3C 4D 5A 6C 7A 8C  
Teste 818: 1B 2D 3A 4B 5B 6D 7C 8D  
Teste 819: 1C 2B 3D 4B 5A 6D 7A 8C  
Teste 820: 1A 2A 3D 4B 5C 6A 7C 8B  
Teste 821: 1C 2A 3B 4C 5A 6B 7B 8D  
Teste 822: 1C 2D 3D 4B 5C 6B 7C 8B  
Teste 823: 1B 2A 3B 4C 5A 6A 7C 8B

Teste 824: 1C 2B 3D 4C 5D 6D 7A 8C  
Teste 825: 1C 2C 3B 4D 5C 6D 7B 8A  
Teste 826: 1D 2A 3C 4C 5D 6A 7B 8A  
Teste 827: 1C 2D 3A 4B 5A 6B 7D 8B  
Teste 828: 1D 2D 3C 4C 5A 6C 7B 8D  
Teste 829: 1D 2C 3B 4C 5A 6D 7B 8A  
Teste 830: 1B 2C 3A 4A 5C 6B 7B 8D  
Teste 831: 1D 2C 3D 4B 5A 6D 7C 8C  
Teste 832: 1C 2A 3D 4B 5C 6D 7A 8A  
Teste 833: 1C 2C 3B 4C 5B 6D 7A 8A  
Teste 834: 1D 2B 3C 4B 5B 6D 7D 8D  
Teste 835: 1A 2C 3B 4D 5C 6A 7D 8A  
Teste 836: 1B 2A 3A 4A 5D 6D 7C 8B  
Teste 837: 1C 2B 3C 4C 5A 6A 7A 8B  
Teste 838: 1B 2C 3C 4C 5D 6D 7A 8D  
Teste 839: 1A 2B 3B 4C 5A 6B 7A 8C  
Teste 840: 1B 2A 3A 4D 5D 6C 7A 8D  
Teste 841: 1A 2D 3C 4D 5B 6A 7D 8C  
Teste 842: 1A 2B 3D 4C 5D 6B 7A 8D  
Teste 843: 1A 2D 3B 4A 5B 6C 7C 8C  
Teste 844: 1D 2C 3B 4B 5B 6A 7D 8A  
Teste 845: 1A 2C 3A 4A 5C 6B 7C 8B  
Teste 846: 1C 2A 3D 4B 5A 6B 7C 8A  
Teste 847: 1A 2C 3D 4B 5C 6B 7A 8A  
Teste 848: 1C 2D 3B 4A 5B 6D 7C 8C  
Teste 849: 1D 2D 3B 4B 5A 6B 7C 8A  
Teste 850: 1C 2A 3D 4B 5C 6B 7C 8B  
Teste 851: 1D 2A 3A 4B 5C 6C 7D 8D  
Teste 852: 1B 2C 3C 4D 5C 6B 7B 8A  
Teste 853: 1A 2B 3D 4B 5C 6D 7D 8B  
Teste 854: 1B 2A 3C 4A 5A 6C 7D 8B  
Teste 855: 1B 2A 3B 4D 5D 6D 7A 8C  
Teste 856: 1C 2C 3D 4C 5D 6A 7B 8B  
Teste 857: 1D 2A 3D 4B 5A 6B 7D 8C  
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Teste 861: 1C 2C 3B 4B 5A 6B 7C 8D  
Teste 862: 1C 2B 3C 4A 5A 6B 7D 8B  
Teste 863: 1A 2D 3D 4D 5B 6B 7A 8A  
Teste 864: 1B 2C 3B 4C 5C 6D 7B 8D  
Teste 865: 1D 2D 3B 4A 5A 6C 7C 8A  
Teste 866: 1A 2D 3A 4D 5B 6C 7B 8C  
Teste 867: 1D 2A 3D 4A 5A 6C 7B 8C  
Teste 868: 1C 2A 3D 4B 5C 6A 7C 8D  
Teste 869: 1A 2C 3C 4B 5D 6A 7A 8C  
Teste 870: 1B 2B 3A 4B 5D 6D 7A 8C  
Teste 871: 1D 2C 3B 4D 5A 6A 7B 8A  
Teste 872: 1B 2D 3A 4B 5B 6D 7B 8C  
Teste 873: 1B 2A 3A 4A 5C 6D 7B 8D  
Teste 874: 1C 2D 3A 4D 5A 6B 7B 8C  
Teste 875: 1D 2B 3D 4D 5A 6A 7A 8B  
Teste 876: 1D 2B 3A 4A 5D 6C 7C 8C  
Teste 877: 1A 2D 3C 4C 5B 6A 7A 8C  
Teste 878: 1D 2A 3D 4B 5D 6C 7C 8C  
Teste 879: 1C 2C 3C 4A 5A 6D 7A 8D  
Teste 880: 1B 2D 3C 4D 5A 6A 7B 8A  
Teste 881: 1D 2A 3A 4D 5D 6C 7C 8A  
Teste 882: 1D 2D 3D 4C 5C 6A 7C 8A

Teste 883: 1C 2A 3B 4A 5D 6C 7B 8C  
Teste 884: 1A 2C 3C 4D 5D 6B 7B 8B  
Teste 885: 1A 2C 3D 4A 5B 6B 7C 8A  
Teste 886: 1C 2B 3D 4B 5D 6A 7D 8A  
Teste 887: 1C 2A 3A 4C 5B 6D 7B 8C  
Teste 888: 1B 2B 3A 4D 5A 6D 7A 8C  
Teste 889: 1C 2B 3C 4B 5B 6A 7A 8C  
Teste 890: 1C 2C 3D 4B 5C 6D 7B 8A  
Teste 891: 1C 2C 3A 4B 5D 6B 7C 8A  
Teste 892: 1C 2B 3B 4D 5A 6D 7D 8C  
Teste 893: 1B 2A 3A 4B 5B 6C 7D 8A  
Teste 894: 1A 2B 3B 4A 5A 6C 7D 8B  
Teste 895: 1C 2D 3D 4A 5D 6A 7A 8B  
Teste 896: 1C 2D 3B 4A 5B 6D 7B 8C  
Teste 897: 1D 2D 3C 4D 5C 6B 7B 8B  
Teste 898: 1A 2A 3C 4B 5B 6C 7C 8B  
Teste 899: 1C 2A 3B 4C 5D 6C 7D 8B  
Teste 900: 1B 2A 3B 4D 5C 6B 7A 8C  
Teste 901: 1D 2D 3A 4B 5D 6C 7B 8B  
Teste 902: 1C 2B 3B 4C 5A 6A 7D 8B  
Teste 903: 1A 2B 3A 4C 5D 6B 7C 8A  
Teste 904: 1A 2B 3B 4C 5D 6A 7A 8C  
Teste 905: 1A 2D 3D 4B 5A 6D 7C 8B  
Teste 906: 1D 2D 3B 4B 5A 6B 7D 8A  
Teste 907: 1B 2B 3C 4C 5C 6B 7A 8A  
Teste 908: 1B 2D 3B 4A 5A 6C 7D 8B  
Teste 909: 1A 2C 3A 4B 5C 6B 7A 8D  
Teste 910: 1A 2B 3A 4D 5C 6D 7B 8C  
Teste 911: 1D 2C 3A 4C 5B 6B 7B 8D  
Teste 912: 1A 2A 3C 4A 5B 6C 7B 8B  
Teste 913: 1C 2D 3A 4C 5A 6C 7A 8B  
Teste 914: 1B 2B 3A 4D 5A 6B 7D 8D  
Teste 915: 1D 2C 3C 4B 5A 6D 7A 8B  
Teste 916: 1A 2B 3A 4D 5A 6D 7B 8C  
Teste 917: 1B 2C 3B 4D 5D 6D 7C 8B  
Teste 918: 1B 2C 3C 4B 5B 6D 7A 8C  
Teste 919: 1C 2A 3C 4B 5B 6A 7A 8C  
Teste 920: 1A 2C 3D 4A 5A 6D 7C 8D  
Teste 921: 1D 2C 3B 4C 5B 6B 7C 8A  
Teste 922: 1C 2C 3B 4A 5A 6B 7B 8A  
Teste 923: 1D 2D 3A 4D 5B 6B 7C 8B  
Teste 924: 1D 2A 3A 4A 5B 6A 7B 8D  
Teste 925: 1D 2D 3B 4A 5A 6B 7B 8D  
Teste 926: 1A 2D 3B 4C 5D 6C 7B 8D  
Teste 927: 1B 2C 3C 4D 5D 6B 7A 8D  
Teste 928: 1B 2A 3A 4A 5B 6C 7B 8C  
Teste 929: 1D 2D 3D 4C 5B 6A 7A 8A  
Teste 930: 1C 2D 3D 4A 5D 6B 7C 8A  
Teste 931: 1B 2C 3C 4D 5B 6D 7B 8D  
Teste 932: 1A 2D 3A 4B 5D 6D 7C 8C  
Teste 933: 1C 2B 3B 4A 5B 6C 7A 8D  
Teste 934: 1B 2A 3C 4C 5C 6B 7D 8D  
Teste 935: 1C 2B 3B 4D 5A 6A 7A 8D  
Teste 936: 1C 2B 3C 4B 5B 6D 7C 8A  
Teste 937: 1B 2D 3A 4D 5C 6B 7B 8C  
Teste 938: 1A 2A 3B 4A 5C 6C 7D 8B  
Teste 939: 1C 2A 3B 4B 5A 6A 7C 8B  
Teste 940: 1C 2D 3A 4D 5A 6A 7C 8B  
Teste 941: 1B 2D 3A 4D 5D 6A 7C 8A

Teste 942: 1A 2A 3D 4A 5D 6B 7B 8D  
Teste 943: 1A 2B 3B 4D 5C 6C 7C 8A  
Teste 944: 1C 2C 3A 4D 5D 6A 7A 8B  
Teste 945: 1A 2C 3B 4C 5C 6A 7D 8A  
Teste 946: 1A 2A 3A 4B 5C 6B 7B 8D  
Teste 947: 1B 2D 3B 4B 5D 6D 7A 8A  
Teste 948: 1D 2B 3C 4B 5C 6A 7B 8C  
Teste 949: 1C 2D 3D 4B 5C 6A 7C 8B  
Teste 950: 1D 2B 3D 4D 5B 6A 7B 8B  
Teste 951: 1C 2A 3A 4B 5A 6B 7B 8D  
Teste 952: 1C 2A 3B 4C 5B 6A 7C 8A  
Teste 953: 1D 2A 3D 4B 5B 6B 7A 8C  
Teste 954: 1D 2C 3B 4D 5D 6A 7A 8C  
Teste 955: 1D 2C 3B 4C 5A 6A 7A 8C  
Teste 956: 1C 2C 3B 4B 5C 6D 7A 8D  
Teste 957: 1D 2B 3B 4A 5B 6A 7C 8D  
Teste 958: 1B 2D 3A 4D 5C 6B 7D 8C  
Teste 959: 1D 2A 3A 4B 5D 6B 7D 8B  
Teste 960: 1B 2C 3D 4A 5C 6C 7B 8D  
Teste 961: 1B 2B 3B 4D 5C 6A 7C 8A  
Teste 962: 1D 2D 3D 4C 5C 6A 7A 8A  
Teste 963: 1D 2D 3D 4A 5C 6A 7B 8B  
Teste 964: 1A 2B 3D 4B 5D 6A 7A 8C  
Teste 965: 1B 2C 3C 4B 5B 6A 7C 8D  
Teste 966: 1B 2C 3B 4C 5D 6B 7D 8D  
Teste 967: 1B 2C 3C 4A 5D 6A 7A 8B  
Teste 968: 1B 2A 3D 4A 5D 6B 7B 8D  
Teste 969: 1A 2A 3D 4A 5C 6C 7C 8D  
Teste 970: 1A 2C 3B 4A 5B 6A 7D 8C  
Teste 971: 1D 2C 3C 4A 5D 6C 7D 8B  
Teste 972: 1A 2A 3B 4A 5C 6B 7B 8D  
Teste 973: 1B 2A 3D 4B 5B 6D 7C 8C  
Teste 974: 1B 2D 3B 4A 5B 6C 7C 8C  
Teste 975: 1A 2D 3D 4B 5D 6C 7B 8A  
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Teste 978: 1A 2A 3D 4C 5D 6C 7B 8A  
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Teste 986: 1C 2D 3A 4B 5A 6A 7C 8C  
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Teste 992: 1D 2A 3D 4C 5B 6D 7B 8B  
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Teste 995: 1B 2A 3D 4D 5B 6B 7A 8D  
Teste 996: 1A 2B 3C 4D 5B 6A 7C 8B  
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Teste 998: 1C 2A 3C 4D 5B 6A 7D 8A  
Teste 999: 1A 2A 3C 4D 5D 6C 7D 8B  
Teste 1000: 1B 2D 3C 4C 5A 6D 7C 8B

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Teste 1002: 1D 2B 3A 4C 5A 6D 7D 8B  
Teste 1003: 1D 2A 3A 4B 5C 6A 7C 8D  
Teste 1004: 1A 2B 3C 4D 5D 6C 7C 8A  
Teste 1005: 1D 2D 3C 4D 5B 6A 7B 8A  
Teste 1006: 1B 2D 3A 4A 5A 6D 7B 8B  
Teste 1007: 1C 2D 3A 4A 5A 6B 7B 8C  
Teste 1008: 1D 2B 3A 4C 5C 6B 7D 8A  
Teste 1009: 1C 2C 3B 4A 5D 6C 7D 8A  
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Teste 1052: 1B 2B 3D 4D 5D 6B 7C 8A  
Teste 1053: 1C 2A 3C 4A 5D 6D 7C 8B  
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Teste 1057: 1C 2D 3C 4B 5A 6B 7C 8B  
Teste 1058: 1B 2B 3C 4D 5D 6A 7C 8A  
Teste 1059: 1A 2B 3D 4C 5A 6C 7C 8A

Teste 1060: 1A 2B 3D 4B 5C 6D 7C 8D  
Teste 1061: 1C 2B 3A 4C 5C 6B 7B 8C  
Teste 1062: 1A 2A 3B 4C 5C 6D 7D 8C  
Teste 1063: 1C 2C 3C 4A 5D 6D 7D 8A  
Teste 1064: 1D 2D 3D 4C 5B 6C 7B 8C  
Teste 1065: 1A 2C 3D 4C 5D 6D 7A 8A  
Teste 1066: 1A 2B 3D 4C 5D 6C 7D 8C  
Teste 1067: 1D 2C 3D 4D 5C 6B 7B 8C  
Teste 1068: 1C 2B 3D 4A 5A 6D 7A 8C  
Teste 1069: 1A 2C 3D 4A 5B 6C 7D 8D  
Teste 1070: 1C 2C 3C 4A 5B 6B 7B 8A  
Teste 1071: 1A 2A 3B 4A 5B 6B 7D 8C  
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Teste 1073: 1C 2C 3A 4C 5B 6D 7A 8D  
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Teste 1076: 1A 2C 3C 4A 5B 6A 7C 8D  
Teste 1077: 1B 2C 3C 4B 5D 6B 7A 8D  
Teste 1078: 1D 2B 3A 4D 5A 6B 7A 8B  
Teste 1079: 1C 2A 3D 4D 5D 6A 7A 8C  
Teste 1080: 1C 2B 3B 4C 5A 6B 7A 8C  
Teste 1081: 1D 2C 3A 4A 5B 6A 7B 8C  
Teste 1082: 1A 2A 3B 4B 5B 6C 7C 8C  
Teste 1083: 1C 2C 3A 4A 5D 6C 7B 8B  
Teste 1084: 1A 2B 3B 4D 5C 6A 7D 8B  
Teste 1085: 1C 2C 3C 4D 5B 6D 7D 8A  
Teste 1086: 1D 2C 3C 4C 5A 6B 7A 8D  
Teste 1087: 1B 2C 3D 4C 5A 6B 7D 8B  
Teste 1088: 1A 2D 3C 4B 5C 6D 7A 8C  
Teste 1089: 1D 2C 3C 4C 5A 6A 7B 8B  
Teste 1090: 1B 2D 3A 4C 5C 6A 7A 8B  
Teste 1091: 1A 2C 3C 4D 5B 6B 7C 8D  
Teste 1092: 1A 2B 3B 4D 5A 6B 7D 8D  
Teste 1093: 1A 2D 3A 4D 5C 6B 7D 8A  
Teste 1094: 1C 2B 3D 4D 5A 6B 7D 8B  
Teste 1095: 1A 2C 3D 4B 5C 6B 7D 8B  
Teste 1096: 1B 2B 3A 4D 5B 6C 7D 8D  
Teste 1097: 1B 2A 3A 4A 5D 6B 7D 8B  
Teste 1098: 1A 2C 3A 4A 5C 6B 7B 8D  
Teste 1099: 1D 2B 3D 4B 5D 6C 7C 8C  
Teste 1100: 1C 2D 3C 4B 5C 6B 7B 8D  
Teste 1101: 1C 2B 3B 4A 5A 6A 7C 8C  
Teste 1102: 1B 2B 3A 4B 5A 6C 7C 8A  
Teste 1103: 1C 2A 3B 4B 5A 6A 7C 8D  
Teste 1104: 1D 2D 3C 4C 5A 6D 7B 8B  
Teste 1105: 1D 2A 3A 4C 5D 6A 7B 8B  
Teste 1106: 1D 2D 3A 4B 5D 6C 7C 8B  
Teste 1107: 1C 2A 3C 4B 5D 6C 7D 8A  
Teste 1108: 1D 2D 3D 4B 5C 6B 7C 8C  
Teste 1109: 1A 2A 3D 4D 5C 6D 7A 8C  
Teste 1110: 1A 2B 3C 4B 5B 6D 7D 8A  
Teste 1111: 1B 2D 3D 4D 5B 6B 7A 8C  
Teste 1112: 1D 2C 3C 4B 5B 6D 7D 8C  
Teste 1113: 1D 2B 3A 4C 5A 6D 7B 8A  
Teste 1114: 1A 2C 3A 4D 5D 6B 7B 8C  
Teste 1115: 1A 2B 3B 4A 5D 6B 7A 8C  
Teste 1116: 1B 2B 3A 4A 5B 6A 7D 8D  
Teste 1117: 1C 2D 3D 4C 5D 6C 7D 8D  
Teste 1118: 1C 2A 3D 4B 5D 6D 7C 8C

Teste 1119: 1B 2A 3B 4D 5D 6C 7B 8A  
Teste 1120: 1D 2B 3C 4A 5D 6D 7C 8B  
Teste 1121: 1B 2C 3A 4B 5C 6D 7C 8A  
Teste 1122: 1C 2D 3B 4D 5B 6D 7C 8B  
Teste 1123: 1A 2C 3D 4A 5B 6B 7D 8B  
Teste 1124: 1B 2C 3B 4B 5D 6D 7C 8C  
Teste 1125: 1A 2A 3B 4D 5C 6C 7C 8B  
Teste 1126: 1D 2D 3C 4A 5B 6D 7C 8C  
Teste 1127: 1C 2B 3B 4B 5A 6D 7C 8C  
Teste 1128: 1C 2C 3B 4D 5C 6A 7A 8B  
Teste 1129: 1D 2D 3C 4A 5A 6D 7A 8C  
Teste 1130: 1C 2D 3C 4A 5B 6B 7B 8A  
Teste 1131: 1A 2B 3B 4B 5D 6D 7C 8D  
Teste 1132: 1D 2D 3B 4B 5C 6C 7A 8C  
Teste 1133: 1A 2D 3D 4D 5C 6B 7A 8A  
Teste 1134: 1A 2A 3B 4C 5C 6D 7D 8B  
Teste 1135: 1B 2D 3B 4A 5B 6C 7C 8A  
Teste 1136: 1D 2C 3B 4C 5B 6A 7D 8A  
Teste 1137: 1B 2B 3D 4D 5A 6A 7A 8C  
Teste 1138: 1A 2A 3A 4D 5D 6C 7C 8D  
Teste 1139: 1B 2B 3B 4A 5A 6A 7D 8A  
Teste 1140: 1D 2B 3A 4D 5A 6C 7D 8A  
Teste 1141: 1B 2A 3B 4D 5D 6A 7D 8A  
Teste 1142: 1C 2B 3B 4C 5A 6D 7A 8B  
Teste 1143: 1D 2C 3A 4B 5C 6C 7B 8B  
Teste 1144: 1A 2D 3D 4A 5A 6C 7C 8B  
Teste 1145: 1C 2A 3A 4B 5D 6D 7D 8A  
Teste 1146: 1D 2B 3A 4D 5D 6A 7A 8C  
Teste 1147: 1A 2B 3D 4D 5C 6A 7B 8A  
Teste 1148: 1D 2C 3A 4D 5B 6B 7D 8A  
Teste 1149: 1D 2A 3D 4C 5B 6B 7A 8B  
Teste 1150: 1D 2D 3C 4D 5A 6B 7C 8B  
Teste 1151: 1B 2B 3C 4B 5D 6D 7A 8C  
Teste 1152: 1B 2C 3C 4A 5D 6A 7B 8B  
Teste 1153: 1C 2D 3B 4A 5C 6C 7B 8A  
Teste 1154: 1C 2D 3C 4A 5A 6D 7C 8A  
Teste 1155: 1A 2B 3A 4D 5C 6C 7B 8B  
Teste 1156: 1A 2A 3D 4C 5D 6C 7B 8C  
Teste 1157: 1B 2B 3B 4C 5C 6C 7D 8D  
Teste 1158: 1C 2C 3A 4D 5A 6B 7B 8D  
Teste 1159: 1D 2C 3C 4D 5B 6C 7D 8B  
Teste 1160: 1A 2A 3B 4D 5D 6B 7C 8C  
Teste 1161: 1C 2C 3C 4B 5D 6D 7A 8D  
Teste 1162: 1D 2C 3C 4A 5B 6B 7C 8D  
Teste 1163: 1B 2C 3B 4A 5A 6D 7D 8A  
Teste 1164: 1B 2C 3D 4D 5B 6B 7A 8A  
Teste 1165: 1D 2B 3B 4D 5D 6B 7C 8A  
Teste 1166: 1A 2A 3B 4D 5A 6C 7C 8C  
Teste 1167: 1C 2C 3B 4C 5D 6D 7D 8B  
Teste 1168: 1A 2D 3B 4A 5A 6D 7D 8B  
Teste 1169: 1A 2D 3C 4B 5B 6A 7A 8D  
Teste 1170: 1C 2D 3C 4B 5A 6D 7A 8D  
Teste 1171: 1D 2C 3B 4D 5D 6C 7B 8A  
Teste 1172: 1B 2B 3C 4A 5A 6A 7C 8D  
Teste 1173: 1C 2D 3B 4C 5D 6A 7C 8B  
Teste 1174: 1C 2C 3D 4B 5A 6C 7D 8B  
Teste 1175: 1C 2C 3D 4A 5A 6D 7C 8B  
Teste 1176: 1D 2D 3A 4B 5B 6A 7D 8A  
Teste 1177: 1A 2D 3B 4C 5A 6B 7A 8C



Teste 1178: 1C 2D 3C 4B 5A 6A 7B 8D  
Teste 1179: 1B 2A 3C 4A 5A 6B 7D 8B  
Teste 1180: 1C 2D 3D 4D 5C 6B 7C 8A  
Teste 1181: 1B 2D 3C 4D 5D 6A 7B 8A  
Teste 1182: 1B 2A 3A 4D 5B 6A 7B 8C  
Teste 1183: 1A 2D 3A 4C 5C 6D 7B 8A  
Teste 1184: 1A 2A 3C 4B 5B 6C 7A 8D  
Teste 1185: 1B 2A 3D 4D 5B 6C 7A 8C  
Teste 1186: 1D 2A 3A 4B 5B 6B 7A 8D  
Teste 1187: 1B 2A 3C 4C 5D 6C 7A 8B  
Teste 1188: 1C 2C 3D 4C 5B 6B 7A 8B  
Teste 1189: 1A 2B 3B 4A 5A 6C 7C 8C  
Teste 1190: 1B 2A 3B 4C 5A 6B 7D 8C  
Teste 1191: 1B 2C 3D 4B 5D 6C 7C 8B  
Teste 1192: 1C 2A 3B 4D 5B 6C 7D 8C  
Teste 1193: 1D 2D 3B 4C 5B 6A 7C 8B  
Teste 1194: 1B 2C 3A 4C 5D 6D 7B 8C  
Teste 1195: 1A 2A 3B 4B 5B 6D 7C 8C  
Teste 1196: 1A 2C 3D 4B 5D 6D 7A 8A  
Teste 1197: 1A 2D 3A 4D 5B 6B 7D 8A  
Teste 1198: 1A 2A 3A 4B 5B 6B 7B 8C  
Teste 1199: 1A 2B 3C 4A 5B 6A 7C 8B  
Teste 1200: 1C 2A 3D 4B 5A 6D 7A 8D  
Teste 1201: 1C 2A 3C 4D 5B 6B 7B 8D  
Teste 1202: 1B 2A 3A 4A 5D 6D 7C 8B  
Teste 1203: 1A 2B 3D 4C 5B 6D 7C 8B  
Teste 1204: 1A 2C 3D 4D 5A 6A 7D 8C  
Teste 1205: 1A 2A 3B 4B 5C 6A 7D 8B  
Teste 1206: 1D 2B 3B 4A 5D 6D 7C 8A  
Teste 1207: 1D 2C 3D 4D 5B 6A 7B 8B  
Teste 1208: 1D 2B 3D 4B 5D 6C 7A 8A  
Teste 1209: 1B 2D 3A 4A 5C 6A 7B 8B  
Teste 1210: 1B 2B 3C 4C 5B 6A 7C 8C  
Teste 1211: 1C 2A 3D 4C 5D 6A 7B 8C  
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Teste 1214: 1A 2C 3D 4A 5C 6B 7D 8C  
Teste 1215: 1C 2B 3A 4B 5D 6B 7C 8D  
Teste 1216: 1B 2B 3C 4B 5A 6A 7D 8C  
Teste 1217: 1C 2C 3C 4B 5D 6A 7B 8D  
Teste 1218: 1A 2D 3D 4D 5A 6A 7C 8B  
Teste 1219: 1C 2C 3A 4C 5B 6B 7A 8A  
Teste 1220: 1A 2D 3C 4A 5A 6B 7D 8C  
Teste 1221: 1B 2A 3C 4C 5A 6B 7B 8A  
Teste 1222: 1A 2B 3A 4D 5C 6C 7B 8A  
Teste 1223: 1C 2A 3D 4C 5D 6C 7B 8D  
Teste 1224: 1A 2A 3D 4B 5C 6B 7A 8D  
Teste 1225: 1B 2C 3D 4A 5B 6D 7B 8D  
Teste 1226: 1C 2B 3B 4C 5C 6A 7A 8D  
Teste 1227: 1A 2B 3D 4C 5C 6D 7B 8A  
Teste 1228: 1B 2C 3B 4B 5C 6A 7A 8A  
Teste 1229: 1B 2C 3A 4C 5C 6A 7A 8B  
Teste 1230: 1C 2B 3B 4D 5A 6B 7C 8D  
Teste 1231: 1C 2D 3A 4B 5D 6B 7C 8A  
Teste 1232: 1A 2A 3A 4D 5D 6B 7D 8B  
Teste 1233: 1D 2D 3B 4B 5C 6A 7B 8A  
Teste 1234: 1A 2D 3D 4A 5B 6C 7B 8A  
Teste 1235: 1C 2A 3B 4B 5A 6C 7A 8B  
Teste 1236: 1C 2C 3D 4D 5B 6D 7A 8C

Teste 1237: 1B 2A 3C 4A 5A 6B 7B 8C  
Teste 1238: 1A 2A 3C 4B 5C 6B 7C 8B  
Teste 1239: 1A 2C 3A 4C 5B 6A 7B 8D  
Teste 1240: 1C 2D 3C 4A 5A 6D 7A 8C  
Teste 1241: 1C 2A 3C 4D 5D 6D 7C 8B  
Teste 1242: 1C 2B 3C 4A 5B 6A 7C 8D  
Teste 1243: 1A 2D 3B 4B 5B 6D 7A 8C  
Teste 1244: 1D 2A 3B 4A 5D 6C 7A 8D  
Teste 1245: 1D 2A 3D 4A 5A 6D 7B 8B  
Teste 1246: 1B 2D 3C 4D 5D 6C 7B 8B  
Teste 1247: 1A 2A 3A 4B 5B 6C 7D 8C  
Teste 1248: 1B 2A 3A 4C 5C 6A 7D 8D  
Teste 1249: 1C 2B 3D 4A 5B 6A 7C 8C  
Teste 1250: 1D 2A 3B 4C 5B 6A 7D 8D  
Teste 1251: 1C 2C 3B 4D 5A 6A 7C 8A  
Teste 1252: 1C 2D 3B 4C 5B 6D 7B 8D  
Teste 1253: 1C 2B 3C 4C 5D 6D 7D 8B  
Teste 1254: 1D 2A 3B 4A 5A 6B 7C 8C  
Teste 1255: 1A 2B 3D 4D 5A 6D 7C 8B  
Teste 1256: 1C 2C 3D 4B 5B 6A 7C 8B  
Teste 1257: 1A 2C 3A 4A 5B 6C 7B 8B  
Teste 1258: 1A 2B 3C 4A 5A 6D 7C 8D  
Teste 1259: 1A 2D 3C 4D 5B 6A 7C 8B  
Teste 1260: 1D 2A 3A 4C 5C 6D 7B 8B  
Teste 1261: 1D 2B 3C 4B 5C 6B 7D 8A  
Teste 1262: 1B 2B 3C 4C 5D 6D 7A 8C  
Teste 1263: 1B 2B 3A 4D 5C 6A 7B 8A  
Teste 1264: 1A 2B 3A 4A 5D 6D 7D 8B  
Teste 1265: 1C 2D 3D 4B 5C 6B 7C 8B  
Teste 1266: 1D 2D 3A 4B 5C 6B 7A 8C  
Teste 1267: 1D 2C 3C 4D 5D 6B 7C 8B  
Teste 1268: 1B 2A 3B 4B 5C 6D 7A 8C  
Teste 1269: 1D 2C 3C 4D 5A 6D 7B 8C  
Teste 1270: 1A 2B 3A 4D 5B 6C 7C 8A  
Teste 1271: 1B 2D 3D 4D 5C 6C 7C 8B  
Teste 1272: 1B 2A 3B 4A 5A 6C 7D 8B  
Teste 1273: 1B 2D 3B 4B 5D 6D 7D 8C  
Teste 1274: 1D 2A 3A 4B 5A 6D 7B 8D  
Teste 1275: 1C 2A 3D 4A 5C 6C 7A 8D  
Teste 1276: 1B 2A 3C 4A 5C 6D 7B 8C  
Teste 1277: 1D 2A 3B 4A 5A 6C 7D 8B  
Teste 1278: 1A 2C 3C 4C 5D 6B 7B 8A  
Teste 1279: 1D 2B 3B 4A 5C 6D 7A 8D  
Teste 1280: 1C 2A 3C 4A 5B 6B 7D 8A  
Teste 1281: 1C 2D 3A 4B 5A 6B 7C 8D  
Teste 1282: 1D 2A 3D 4A 5B 6B 7D 8C  
Teste 1283: 1A 2B 3B 4A 5A 6C 7D 8D  
Teste 1284: 1D 2A 3D 4C 5A 6D 7A 8C  
Teste 1285: 1D 2C 3D 4C 5A 6A 7D 8C  
Teste 1286: 1C 2D 3B 4A 5C 6C 7D 8A  
Teste 1287: 1C 2B 3D 4D 5D 6B 7A 8B  
Teste 1288: 1D 2B 3C 4D 5A 6A 7A 8C  
Teste 1289: 1C 2D 3C 4A 5D 6B 7D 8A  
Teste 1290: 1D 2B 3D 4A 5A 6D 7B 8C  
Teste 1291: 1D 2B 3C 4D 5C 6C 7A 8B  
Teste 1292: 1A 2A 3C 4D 5A 6C 7C 8D  
Teste 1293: 1D 2A 3C 4A 5D 6D 7B 8B  
Teste 1294: 1D 2A 3C 4B 5A 6D 7A 8B  
Teste 1295: 1A 2A 3B 4C 5C 6C 7A 8D

Teste 1296: 1A 2B 3B 4C 5D 6D 7A 8D  
Teste 1297: 1C 2C 3B 4C 5D 6D 7B 8D  
Teste 1298: 1C 2B 3A 4A 5C 6D 7A 8C  
Teste 1299: 1B 2C 3B 4A 5C 6B 7C 8D  
Teste 1300: 1B 2A 3A 4B 5A 6D 7D 8C  
Teste 1301: 1C 2C 3B 4D 5D 6A 7A 8C  
Teste 1302: 1D 2A 3D 4B 5D 6B 7A 8A  
Teste 1303: 1A 2D 3B 4A 5B 6D 7A 8D  
Teste 1304: 1B 2A 3B 4A 5B 6D 7A 8D  
Teste 1305: 1B 2C 3D 4C 5D 6C 7D 8A  
Teste 1306: 1A 2C 3C 4D 5A 6A 7C 8B  
Teste 1307: 1C 2A 3A 4A 5B 6A 7B 8D  
Teste 1308: 1D 2D 3C 4A 5D 6C 7A 8A  
Teste 1309: 1B 2D 3C 4C 5C 6B 7A 8D  
Teste 1310: 1D 2C 3B 4B 5C 6A 7B 8C  
Teste 1311: 1C 2A 3A 4D 5A 6D 7C 8C  
Teste 1312: 1C 2C 3A 4A 5B 6A 7B 8D  
Teste 1313: 1B 2A 3B 4D 5A 6C 7D 8D  
Teste 1314: 1D 2C 3B 4D 5D 6A 7B 8A  
Teste 1315: 1B 2B 3A 4C 5B 6A 7A 8C  
Teste 1316: 1B 2D 3C 4A 5A 6D 7A 8C  
Teste 1317: 1B 2B 3D 4C 5B 6C 7A 8C  
Teste 1318: 1C 2C 3C 4D 5A 6A 7B 8A  
Teste 1319: 1C 2A 3A 4C 5B 6C 7D 8B  
Teste 1320: 1D 2B 3B 4A 5D 6D 7C 8A  
Teste 1321: 1D 2A 3A 4D 5A 6B 7D 8B  
Teste 1322: 1B 2C 3A 4C 5A 6A 7B 8D  
Teste 1323: 1D 2D 3B 4C 5C 6D 7C 8A  
Teste 1324: 1C 2D 3C 4B 5C 6B 7D 8A  
Teste 1325: 1B 2D 3C 4C 5C 6B 7B 8D  
Teste 1326: 1B 2B 3C 4D 5A 6A 7A 8D  
Teste 1327: 1B 2A 3D 4C 5D 6D 7A 8A  
Teste 1328: 1B 2B 3B 4A 5A 6D 7D 8C  
Teste 1329: 1C 2C 3B 4D 5C 6B 7D 8A