

№	Решение на языке PascalABC.NET	Решение на языке Python	Ответ
1.	<pre>var a,b,c,x,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 9; while x > 0 do begin c:= x mod 10; a:= a + c; if c < b then b:= c; x:= x div 10; end; if (a=14) and (b=3) then v:=z; writeln(v); end. end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 9 while x > 0: c = x % 10 a = a + c if c < b: b = c x = x // 10 if a == 14 and b == 3: v = z print(v)</pre>	5333
2.	<pre>var a,b,c,x,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 5; while x > 0 do begin c:= x mod 5; a:= a + c; if c < b then b:= c; x:= x div 10; end; if (a=16) and (b=2) then begin v:=z; break; end; end; writeln(v); end. end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 5 while x > 0: c = x % 5 a = a + c if c < b: b = c x = x // 10 if a == 16 and b == 2: v = z break print(v)</pre>	22444
3.	<pre>var a,b,c,x,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 5; while x > 0 do begin c:= x mod 5; a:= a + c; if c < b then b:= c; x:= x div 5; end; if (a=11) and (b=2) then v:=z; end; writeln(v); end. end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 5 while x > 0: c = x % 5 a = a + c if c < b: b = c x = x // 5 if a == 11 and b == 2: v = z print(v)</pre>	2187

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4.	<pre>var a,b,c,x,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 0; while x > 0 do begin c:= x mod 2; if c = 0 then a:= a + 1 else b:= b + 1; x:= x div 4; end; if (a=4) and (b=2) then begin v:=z; break; end; end; writeln(v); end. end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 0 while x > 0: c = x % 2 if c == 0: a = a + 1 else: b = b + 1 x = x // 4 if a == 4 and b == 2: v = z break print(v)</pre>	1025
5.	<pre>var a,b,c,x,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 0; while x > 0 do begin c:= x mod 2; if c = 0 then a:= a + 1 else b:= b + 1; x:= x div 8; end; if (a=1) and (b=2) then v:=z; end; writeln(v); end. end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 0 while x > 0: c = x % 2 if c == 0: a = a + 1 else: b = b + 1 x = x // 8 if a == 1 and b == 2: v = z print(v)</pre>	510
6.	<pre>var a,b,c,x,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 0; while x > 0 do begin c:= x mod 3; if c = 0 then a:= a + 1 else b:= b + 1; x:= x div 9; end; if (a=2) and (b=1) then v:=z; end; writeln(v); end. end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 0 while x > 0: c = x % 3 if c == 0: a = a + 1 else: b = b + 1 x = x // 9 if a == 2 and b == 1: v = z print(v)</pre>	708

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7.	<pre>var a,b,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 0; while x > 0 do begin b:= b + 1; y:= x mod 2; if y <> 0 then a:= a + 1; x:= x div 4; end; if (a=3) and (b=5) then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 0 while x > 0: b = b + 1 y = x % 2 if y != 0: a = a + 1 x = x // 4 if a == 3 and b == 5: break print(v)</pre>	261
8.	<pre>var a,b,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 0; while x > 0 do begin b:= b + 1; y:= x mod 4; if y <> 3 then a:= a + 1; x:= x div 8; end; if (a=2) and (b=4) then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 0 while x > 0: b = b + 1 y = x % 4 if y != 3: a = a + 1 x = x // 8 if a == 2 and b == 4: break print(v)</pre>	539
9.	<pre>var a,b,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 0; while x > 0 do begin b:= b + 1; y:= x mod 3; if y <> 2 then a:= a + 1; x:= x div 6; end; if (a=2) and (b=4) then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 0 while x > 0: b = b + 1 y = x % 3 if y != 2: a = a + 1 x = x // 6 if a == 2 and b == 4: break print(v)</pre>	1288

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10.	<pre>var a,b,x,y,z,v:integer; begin for z:=10000 to 99999 do begin x:=z; a:= 0; b:= 0; while x > 0 do begin y:= x mod 10; if y > 3 then a:= a + 1; if y < 7 then b:= b + 1; x:= x div 10; end; if (a=3) and (b=4) then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(10000,100000): x = z a = 0 b = 0 while x > 0: y = x % 10 if y > 3: a = a + 1 if y < 7: b = b + 1 x = x // 10 if a==3 and b==4: v = z break print(v)</pre>	10447
11.	<pre>var a,b,x,y,d,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; d:= 0; a:= 0; b:= 0; while x > 0 do begin d:= d + 1; y:= x mod 10; if y > 4 then a:= a + 1; if y <= 8 then b:= b + 1; x:= x div 10; end; if (a=4) and (b=2) and (d=5) then v:=z; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z d = 0 a = 0 b = 0 while x > 0: d += 1 y = x % 10 if y > 4: a = a + 1 if y <= 8: b = b + 1 x = x // 10 if a==4 and b==2 and d==5: v = z print(v)</pre>	99984
12.	<pre>var a,b,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 0; b:= 0; while x > 0 do begin y:= x mod 8; if y > 2 then a:= a + 1; if y < 6 then b:= b + 1; x:= x div 8; end; if (a=4) and (b=3) then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 0 b = 0 while x > 0: y = x % 8 if y > 2: a = a + 1 if y < 6: b = b + 1 x = x // 8 if a==4 and b==3: v = z break print(v)</pre>	1758

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13.	<pre>var L,M,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; L:= 1; M:= 0; while x > 0 do begin M:= M + 1; if (x mod 2)<>0 then L:= L * (x mod 8); x:= x div 8; end; if (L=21) and (M=3) then v:=z; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z L = 1 M = 0 while x > 0: M = M + 1 if (x % 2) != 0: L = L * (x % 8) x = x // 8 if L==21 and M==3: v = z print(v)</pre>	499
14.	<pre>var L,M,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; L:= 2; M:= 0; while x > 0 do begin M:= M + 1; if (x mod 3)<>0 then L:= L * (x mod 6); x:= x div 6; end; if (L=20) and (M=4) then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z L = 2 M = 0 while x > 0: M = M + 1 if (x % 3) != 0: L = L * (x % 6) x = x // 6 if L==20 and M==4: v = z break print(v)</pre>	233
15.	<pre>var L,M,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; L:= 2; M:= 0; while x > 0 do begin M:= M + 1; if (x mod 3)<>0 then L:= L * (x mod 9); x:= x div 9; end; if (L=40) and (M=3) then v:=z; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z L = 2 M = 0 while x > 0: M = M + 1 if (x % 3) != 0: L = L * (x % 9) x = x // 9 if L==40 and M==3: v = z print(v)</pre>	535

№	Решение на языке PascalABC.NET	Решение на языке Python	Ответ
16.	<pre>var L,M,Q,x,y,z,v:integer; begin for z:=1 to 10000 do begin x:=z; Q:= 8; L:= 2; while x > Q do begin L:= L + 1; x:= x - Q; end; M:= x; if M < L then begin M:= L; L:= x; end; if (L=4) and (M=8) then v:=z; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,10000): x = z Q = 8 L = 2 while x > Q: L = L + 1 x = x - Q M = x if M < L: M = L; L = x; if L==4 and M==8: v = z print(v)</pre>	52
17.	<pre>var L,M,Q,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; Q:= 9; L:= 3; while x >= Q do begin L:= L + 1; x:= x - Q; end; M:= x; if M < L then begin M:= L; L:= x; end; if (L=7) and (M=8) then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z Q = 9 L = 3 while x >= Q: L = L + 1 x = x - Q M = x if M < L: M = L; L = x; if L==7 and M==8: v = z break print(v)</pre>	44
18.	<pre>var L,M,Q,x,y,z,v:integer; begin for z:=1 to 10000 do begin x:=z; Q:= 9; L:= 1; while x > Q do begin L:= L + 1; x:= x - Q; end; M:= x; if M < L then begin M:= L; L:= x; end; if (L=4) and (M=7) then v:=z; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,10000): x = z Q = 9 L = 1 while x > Q: L = L + 1 x = x - Q M = x if M < L: M = L; L = x; if L==4 and M==7: v = z print(v)</pre>	58

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19.	<pre>var x,L,M,y,z,v:integer; begin for z:=201 to 1000000 do begin x:=z; L:= x; M:= 65; if (L mod 2)=0 then M := 52; while L <> M do if L > M then L := L - M else M := M - L; if M = 26 then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(201,10000): x = z L = x M = 65 if (L % 2) == 0: M = 52 while L != M: if L > M: L = L - M else: M = M - L if M == 26: v = z break print(v)</pre>	234
20.	<pre>var x,L,M,y,z,v:integer; begin for z:=1 to 499 do begin x:=z; L:= x; M:= 65; if (L mod 2)=0 then M := 52; while L <> M do if L > M then L := L - M else M := M - L; if M = 26 then v:=z; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1, 500): x = z L = x M = 65 if (L % 2) == 0: M = 52 while L != M: if L > M: L = L - M else: M = M - L if M == 26: v = z print(v)</pre>	494
21.	<pre>var x,L,M,y,z,v:integer; begin for z:=1 to 799 do begin x:=z; L:= x; M:= 85; if (L mod 2)=0 then M := 68; while L <> M do if L > M then L := L - M else M := M - L; if M = 34 then v:=z; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1, 800): x = z L = x M = 85 if (L % 2) == 0: M = 68 while L != M: if L > M: L = L - M else: M = M - L if M == 34: v = z print(v)</pre>	782

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22.	<pre>var x,L,M,y,z,v:integer; begin for z:=251 to 1000000 do begin x:=z; L:= x; M:= 85; if (L mod 2)=0 then M := 68; while L <> M do if L > M then L := L - M else M := M - L; if M = 34 then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(250,10000): x = z L = x M = 85 if (L % 2) == 0: M = 68 while L != M: if L > M: L = L - M else: M = M - L if M == 34: v = z break print(v)</pre>	306
23.	<pre>var a,b,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 1; b:= 2; while x > 0 do begin a:= a + 1; y:= x mod 100; b:= b * y; x:= x div 100; end; if (a=3) and (b=36) then v:=z; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 1 b = 2 while x > 0: a = a + 1 y = x % 100 b = b * y x = x // 100 if a == 3 and b == 36: v = z print(v)</pre>	1801
24.	<pre>var a,b,x,y,z,v:integer; begin for z:=1 to 1000000 do begin x:=z; a:= 1; b:= 1; while x > 0 do begin a:= a + 1; y:= x mod 1000; b:= b * y; x:= x div 1000; end; if (a=3) and (b=63) then begin v:=z; break; end; end; writeln(v); end.</pre>	<pre>v = 0 for z in range(1,1000000): x = z a = 1 b = 1 while x > 0: a = a + 1 y = x % 1000 b = b * y x = x // 1000 if a == 3 and b == 36: v = z break print(v)</pre>	1063

№	Решение с помощью ЭТ	Решение на языке Pascal/ABC.NET	Решение на языке Python	Ответ																																																																																																		
25.	<table border="1"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Число</td> <td>Кол-во</td> <td>Функция</td> <td>Число</td> <td>Кол-во</td> <td>Функция</td> </tr> <tr> <td>2</td> <td>2</td> <td>1</td> <td>=1</td> <td>2</td> <td>0</td> <td>=0</td> </tr> <tr> <td>3</td> <td>3</td> <td>1</td> <td>=B2</td> <td>3</td> <td>0</td> <td>=0</td> </tr> <tr> <td>4</td> <td>4</td> <td>1</td> <td>=B3</td> <td>4</td> <td>0</td> <td>=0</td> </tr> <tr> <td>5</td> <td>5</td> <td>2</td> <td>=B4+B2</td> <td>5</td> <td>0</td> <td>=0</td> </tr> <tr> <td>6</td> <td>6</td> <td>4</td> <td>=B5+B3+B2</td> <td>6</td> <td>0</td> <td>=0</td> </tr> <tr> <td>7</td> <td>7</td> <td>6</td> <td>=B6+B4+B3</td> <td>7</td> <td>6</td> <td>=6</td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td>8</td> <td>6</td> <td>=E7+E5+E4</td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td>9</td> <td>6</td> <td>=E8+E6+E5</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td>10</td> <td>12</td> <td>=E9+E7+E6</td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td>11</td> <td>24</td> <td>=E10+E8+E7</td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td>12</td> <td>36</td> <td>=E11+E9+E8</td> </tr> <tr> <td>13</td> <td></td> <td></td> <td></td> <td>13</td> <td>54</td> <td>=E12+E10+E9</td> </tr> </tbody> </table>		A	B	C	D	E	F	1	Число	Кол-во	Функция	Число	Кол-во	Функция	2	2	1	=1	2	0	=0	3	3	1	=B2	3	0	=0	4	4	1	=B3	4	0	=0	5	5	2	=B4+B2	5	0	=0	6	6	4	=B5+B3+B2	6	0	=0	7	7	6	=B6+B4+B3	7	6	=6	8				8	6	=E7+E5+E4	9				9	6	=E8+E6+E5	10				10	12	=E9+E7+E6	11				11	24	=E10+E8+E7	12				12	36	=E11+E9+E8	13				13	54	=E12+E10+E9	<pre> const p1=1; p2=3; p3=4; n1=2; n2=13; t=7; var i,j:integer; k:array[n1..n2] of integer; begin k[n1]:=1; for i:=n1 to n2 do begin if (i-p1)>=n1 then k[i]:=k[i-p1]; if (i-p2)>=n1 then k[i]:=k[i]+k[i-p2]; if (i-p3)>=n1 then k[i]:=k[i]+k[i-p3]; if i=t then for j:=n1 to t-1 do k[j]:=0; end; print(k[n2]); end. </pre>	<pre> p1,p2,p3 = 1,3,4 n1,n2,t = 2,13,7 k=[] for i in range(n2+1): k+=[0] k[n1]=1 for i in range(n1,n2+1): if i-p1>=n1: k[i]=k[i-p1] if i-p2>=n1: k[i]=k[i]+k[i-p2] if i-p3>=n1: k[i]=k[i]+k[i-p3] if i==t: for j in range(n1,t): k[j]=0 print(k[n2]) </pre>	54
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