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Заг. 1

ПК₁₁ (-380)

$$\Leftrightarrow 380_{(10)} \leq 101111110_{(2)}$$

$$\Leftrightarrow \text{ПК}_{11}(-380)_{(10)} \leq 1010111110_{(2)}$$

$$\Leftrightarrow \text{ОК}_{11}(-380)_{(10)} \leq 11010000001_{(2)}$$

$$380 : 2$$

190	0
95	1
48	1
23	1
11	1
5	1
2	1
1	0
0	1

$$11010000001$$

+ 1

$$11010000010$$

$$\Leftrightarrow \text{ДК}_{11}(-380) = 11010000010$$

Заг. 2

$$\text{ПК}_{10}(x) = \text{ОК}_{10}(y) = \text{ДК}_{10}(z) = N$$

десетици записи на x, y, z

$$N \leq 1111000010_{(2)}$$

$$\Leftrightarrow \text{ДК}_{10}(z) = N \Leftrightarrow z \leq 1111000010$$

$$\Leftrightarrow 1111000010$$

$$- \quad \quad \quad 1$$

$$1111000001 \Leftrightarrow y \leq 1111000001_{(2)}$$

$$\Leftrightarrow \text{ОК}_{10}(y) \leq 1111000001 \Leftrightarrow \text{ПК}_{10}(x) \leq 0000111110$$

$$x \leq 0000111110_{(2)} \leq (0 \cdot 2^9) + (0 \cdot 2^8) + (0 \cdot 2^7) + (0 \cdot 2^6) + (1 \cdot 2^5) + (1 \cdot 2^4) + (1 \cdot 2^3) + (1 \cdot 2^2) + (1 \cdot 2^1) + (0 \cdot 2^0) \leq (62)_{10}$$

$$y \leq 1111000001_{(2)} \leq (1 \cdot 2^9) + (1 \cdot 2^8) + (1 \cdot 2^7) + (1 \cdot 2^6) + (0 \cdot 2^5) + (0 \cdot 2^4) + (0 \cdot 2^3) + (0 \cdot 2^2) + (0 \cdot 2^1) + (1 \cdot 2^0) \leq (961)_{10}$$

$$Z \leq 1111000010(2) \leq (1 \cdot 2^9) + (1 \cdot 2^8) + (1 \cdot 2^7) + (1 \cdot 2^6) + (0 \cdot 2^5) + (0 \cdot 2^4) + (1 \cdot 2^3) + (0 \cdot 2^2) + (1 \cdot 2^1) + (0 \cdot 2^0) \leq (462)_{10}$$

34p.3

AKT3 5,6 ($-0,080_{10}$)

2.0,080

0	160
0	320
0	480
1	640
0	800
0	960
1	1120
0	1280
0	1440
0	1600
1	1760
1	1920
1	2080
1	2240

$$\Rightarrow 0,080_{10} \approx -0,000101000111 \dots (2)$$

$$\Rightarrow -0,080_{10} \approx \frac{5}{6} - 0,000101000111(2) \approx$$

$$\approx 1,01000111 \cdot 2^4$$

$$UK(-5) \leq 2^4 \cdot 5 \leq 10000(2) - 101$$

$$\begin{array}{r} 10000 \\ - 101 \\ \hline 01011 \end{array}$$

$$\Rightarrow UK5(-5) \leq 01011$$

$$\Rightarrow AKT3 5,6 (-0,080) \leq 101011101000(2)$$