Задача: перевести 71_{10} в двоичную систему.

$$\lfloor \tfrac{71}{2} \rfloor = 35 \qquad 71 \bmod 2 = 1$$

$$\lfloor \tfrac{35}{2} \rfloor = 17 \qquad 35 \bmod 2 = 1$$

$$\lfloor \tfrac{17}{2} \rfloor = 16 \qquad 17 \bmod 2 = 1$$

$$\lfloor \tfrac{8}{2} \rfloor = 4 \qquad 8 \bmod 2 = 0$$

$$\lfloor \tfrac{4}{2} \rfloor = 2 \qquad 4 \bmod 2 = 0$$

$$\lfloor \tfrac{2}{2} \rfloor = 1 \qquad 2 \bmod 2 = 0$$

$71_{10} = 1000111_2$