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- $k = 0$  :

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : \ N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 :$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0$$



$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 :$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = \boxed{1162} \wedge r_0 = 0 \rightarrow \boxed{a_0 = 0}$$

$$k = 1 : N_1 = \boxed{1162} = 2q_1 + r_1 \rightarrow q_1 = \boxed{581} \wedge r_1 = 0 \rightarrow \boxed{a_1 = 0}$$

$$k = 2 : N_2 = \boxed{581} = 2q_2 + r_2$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = \boxed{1162} \wedge r_0 = 0 \rightarrow \boxed{a_0 = 0}$$

$$k = 1 : N_1 = \boxed{1162} = 2q_1 + r_1 \rightarrow q_1 = \boxed{581} \wedge r_1 = 0 \rightarrow \boxed{a_1 = 0}$$

$$k = 2 : N_2 = \boxed{581} = 2q_2 + r_2 \rightarrow q_2 = \boxed{290} \wedge r_2 = 1$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = \boxed{1162} \wedge r_0 = 0 \rightarrow \boxed{a_0 = 0}$$

$$k = 1 : N_1 = \boxed{1162} = 2q_1 + r_1 \rightarrow q_1 = \boxed{581} \wedge r_1 = 0 \rightarrow \boxed{a_1 = 0}$$

$$k = 2 : N_2 = \boxed{581} = 2q_2 + r_2 \rightarrow q_2 = \boxed{290} \wedge r_2 = 1 \rightarrow \boxed{a_2 = 1}$$

$$k = 3 :$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = \boxed{1162} \wedge r_0 = 0 \rightarrow \boxed{a_0 = 0}$$

$$k = 1 : N_1 = \boxed{1162} = 2q_1 + r_1 \rightarrow q_1 = \boxed{581} \wedge r_1 = 0 \rightarrow \boxed{a_1 = 0}$$

$$k = 2 : N_2 = \boxed{581} = 2q_2 + r_2 \rightarrow q_2 = \boxed{290} \wedge r_2 = 1 \rightarrow \boxed{a_2 = 1}$$

$$k = 3 : N_3 = \boxed{290} = 2q_3 + r_3$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = \boxed{1162} \wedge r_0 = 0 \rightarrow \boxed{a_0 = 0}$$

$$k = 1 : N_1 = \boxed{1162} = 2q_1 + r_1 \rightarrow q_1 = \boxed{581} \wedge r_1 = 0 \rightarrow \boxed{a_1 = 0}$$

$$k = 2 : N_2 = \boxed{581} = 2q_2 + r_2 \rightarrow q_2 = \boxed{290} \wedge r_2 = 1 \rightarrow \boxed{a_2 = 1}$$

$$k = 3 : N_3 = \boxed{290} = 2q_3 + r_3 \rightarrow q_3 = \boxed{145} \wedge r_3 = 0 \rightarrow \boxed{a_3 = 0}$$

$$k = 4 :$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4$$



$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$$

$k = 5 :$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = \boxed{1162} \wedge r_0 = 0 \rightarrow \boxed{a_0 = 0}$$

$$k = 1 : N_1 = \boxed{1162} = 2q_1 + r_1 \rightarrow q_1 = \boxed{581} \wedge r_1 = 0 \rightarrow \boxed{a_1 = 0}$$

$$k = 2 : N_2 = \boxed{581} = 2q_2 + r_2 \rightarrow q_2 = \boxed{290} \wedge r_2 = 1 \rightarrow \boxed{a_2 = 1}$$

$$k = 3 : N_3 = \boxed{290} = 2q_3 + r_3 \rightarrow q_3 = \boxed{145} \wedge r_3 = 0 \rightarrow \boxed{a_3 = 0}$$

$$k = 4 : N_4 = \boxed{145} = 2q_4 + r_4 \rightarrow q_4 = \boxed{72} \wedge r_4 = 1 \rightarrow \boxed{a_4 = 1}$$

$$k = 5 : N_5 = \boxed{72} = 2q_5 + r_5$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$$

$$k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0$$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$$

$$k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$$

$$k = 6 :$$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$$

$$k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$$

$$k = 6 : N_6 = 36 = 2q_6 + r_6$$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_2 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0$

$$a) \ 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \ y \ r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet \ k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$$

$$k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$$

$$k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$$

$$k = 7 :$$



$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_2 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$$

$$k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$$

$$k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$$

$$k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0$$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

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$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$$

$$k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$$

$$k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$$

$$k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$$

$$k = 8 :$$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = \boxed{1162} \wedge r_0 = 0 \rightarrow \boxed{a_0 = 0}$$

$$k = 1 : N_1 = \boxed{1162} = 2q_1 + r_1 \rightarrow q_1 = \boxed{581} \wedge r_1 = 0 \rightarrow \boxed{a_1 = 0}$$

$$k = 2 : N_2 = \boxed{581} = 2q_2 + r_2 \rightarrow q_2 = \boxed{290} \wedge r_2 = 1 \rightarrow \boxed{a_2 = 1}$$

$$k = 3 : N_3 = \boxed{290} = 2q_3 + r_3 \rightarrow q_3 = \boxed{145} \wedge r_3 = 0 \rightarrow \boxed{a_3 = 0}$$

$$k = 4 : N_4 = \boxed{145} = 2q_4 + r_4 \rightarrow q_4 = \boxed{72} \wedge r_4 = 1 \rightarrow \boxed{a_4 = 1}$$

$$k = 5 : N_5 = \boxed{72} = 2q_5 + r_5 \rightarrow q_5 = \boxed{36} \wedge r_5 = 0 \rightarrow \boxed{a_5 = 0}$$

$$k = 6 : N_6 = \boxed{36} = 2q_6 + r_6 \rightarrow q_6 = \boxed{18} \wedge r_6 = 0 \rightarrow \boxed{a_6 = 0}$$

$$k = 7 : N_7 = \boxed{18} = 2q_7 + r_7 \rightarrow q_7 = \boxed{9} \wedge r_7 = 0 \rightarrow \boxed{a_7 = 0}$$

$$k = 8 : N_8 = \boxed{9} = 2q_8 + r_8$$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

$$\bullet k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$$

$$k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$$

$$k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$$

$$k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$$

$$k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$$

$$k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$$

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$$k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$$

$$k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1$$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 :$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0$



$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0 \rightarrow a_9 = 0$
- $k = 10 :$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0 \rightarrow a_9 = 0$
- $k = 10 : N_{10} = 2 = 2q_{10} + r_{10}$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0 \rightarrow a_9 = 0$
- $k = 10 : N_{10} = 2 = 2q_{10} + r_{10} \rightarrow q_{10} = 1 \wedge r_{10} = 0$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0 \rightarrow a_9 = 0$
- $k = 10 : N_{10} = 2 = 2q_{10} + r_{10} \rightarrow q_{10} = 1 \wedge r_{10} = 0 \rightarrow a_{10} = 0$
- $k = 11 :$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
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- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0 \rightarrow a_9 = 0$
- $k = 10 : N_{10} = 2 = 2q_{10} + r_{10} \rightarrow q_{10} = 1 \wedge r_{10} = 0 \rightarrow a_{10} = 0$
- $k = 11 : N_{11} = 1 = 2q_{11} + r_{11}$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
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- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
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- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0 \rightarrow a_9 = 0$
- $k = 10 : N_{10} = 2 = 2q_{10} + r_{10} \rightarrow q_{10} = 1 \wedge r_{10} = 0 \rightarrow a_{10} = 0$
- $k = 11 : N_{11} = 1 = 2q_{11} + r_{11} \rightarrow q_{11} = 0 \wedge r_{11} = 1$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
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- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0 \rightarrow a_9 = 0$
- $k = 10 : N_{10} = 2 = 2q_{10} + r_{10} \rightarrow q_{10} = 1 \wedge r_{10} = 0 \rightarrow a_{10} = 0$
- $k = 11 : N_{11} = 1 = 2q_{11} + r_{11} \rightarrow q_{11} = 0 \wedge r_{11} = 1 \rightarrow a_{11} = 1$

$$a) 2324.6 = 2324 + 0.6 \rightarrow N = 2324 \text{ y } r = 0.6$$

$$N = 2324 = (a_j a_{j-1} \dots a_2 a_1 a_0)_2$$

- $k = 0 : N_0 = 2324 = 2q_0 + r_0 \rightarrow q_0 = 1162 \wedge r_0 = 0 \rightarrow a_0 = 0$
- $k = 1 : N_1 = 1162 = 2q_1 + r_1 \rightarrow q_1 = 581 \wedge r_1 = 0 \rightarrow a_1 = 0$
- $k = 2 : N_2 = 581 = 2q_2 + r_2 \rightarrow q_2 = 290 \wedge r_2 = 1 \rightarrow a_2 = 1$
- $k = 3 : N_3 = 290 = 2q_3 + r_3 \rightarrow q_3 = 145 \wedge r_3 = 0 \rightarrow a_3 = 0$
- $k = 4 : N_4 = 145 = 2q_4 + r_4 \rightarrow q_4 = 72 \wedge r_4 = 1 \rightarrow a_4 = 1$
- $k = 5 : N_5 = 72 = 2q_5 + r_5 \rightarrow q_5 = 36 \wedge r_5 = 0 \rightarrow a_5 = 0$
- $k = 6 : N_6 = 36 = 2q_6 + r_6 \rightarrow q_6 = 18 \wedge r_6 = 0 \rightarrow a_6 = 0$
- $k = 7 : N_7 = 18 = 2q_7 + r_7 \rightarrow q_7 = 9 \wedge r_7 = 0 \rightarrow a_7 = 0$
- $k = 8 : N_8 = 9 = 2q_8 + r_8 \rightarrow q_8 = 4 \wedge r_8 = 1 \rightarrow a_8 = 1$
- $k = 9 : N_9 = 4 = 2q_9 + r_9 \rightarrow q_9 = 2 \wedge r_9 = 0 \rightarrow a_9 = 0$
- $k = 10 : N_{10} = 2 = 2q_{10} + r_{10} \rightarrow q_{10} = 1 \wedge r_{10} = 0 \rightarrow a_{10} = 0$
- $k = 11 : N_{11} = 1 = 2q_{11} + r_{11} \rightarrow q_{11} = 0 \wedge r_{11} = 1 \rightarrow a_{11} = 1$

$$N = 2324 = 100100010100_{(2)}$$



$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$

$$\rightarrow r_2 = 1.2 - 1 = 0.2$$

- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$



$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$
- $k = 4$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$
- $k = 4$  ;  $2r_4 = 1.6$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$
- $k = 4$  ;  $2r_4 = 1.6 \rightarrow d_4 = 1$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$
- $k = 4$  ;  $2r_4 = 1.6 \rightarrow d_4 = 1$   
 $\rightarrow r_5 = 1.6 - 1 = 0.6$



$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$
- $k = 4$  ;  $2r_4 = 1.6 \rightarrow d_4 = 1$   
 $\rightarrow r_5 = 1.6 - 1 = 0.6$
- $k = 5$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$
- $k = 4$  ;  $2r_4 = 1.6 \rightarrow d_4 = 1$   
 $\rightarrow r_5 = 1.6 - 1 = 0.6$
- $k = 5$  ;  $2r_5 = 1.2$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$
- $k = 4$  ;  $2r_4 = 1.6 \rightarrow d_4 = 1$   
 $\rightarrow r_5 = 1.6 - 1 = 0.6$
- $k = 5$  ;  $2r_5 = 1.2 \rightarrow d_5 = 1$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$
- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$
- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$
- $k = 4$  ;  $2r_4 = 1.6 \rightarrow d_4 = 1$   
 $\rightarrow r_5 = 1.6 - 1 = 0.6$
- $k = 5$  ;  $2r_5 = 1.2 \rightarrow d_5 = 1$   
 $\rightarrow r_6 = 1.2 - 1 = 0.2$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$

- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$

- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$

- $k = 4$  ;  $2r_4 = 1.6 \rightarrow d_4 = 1$   
 $\rightarrow r_5 = 1.6 - 1 = 0.6$

- $k = 5$  ;  $2r_5 = 1.2 \rightarrow d_5 = 1$   
 $\rightarrow r_6 = 1.2 - 1 = 0.2$

$$r = 0.6 = (0.1001100110011\dots)_2 = (0.\overline{10011})_2$$

$$r = 0.6 = (0.d_1d_2\dots d_j\dots)_2$$

- $k = 1$  ;  $2r_1 = 1.2 \rightarrow d_1 = 1$   
 $\rightarrow r_2 = 1.2 - 1 = 0.2$

- $k = 2$  ;  $2r_2 = 0.4 \rightarrow d_2 = 0$   
 $\rightarrow r_3 = 0.4 - 0 = 0.4$

- $k = 3$  ;  $2r_3 = 0.8 \rightarrow d_3 = 0$   
 $\rightarrow r_4 = 0.8 - 0 = 0.8$

- $k = 4$  ;  $2r_4 = 1.6 \rightarrow d_4 = 1$   
 $\rightarrow r_5 = 1.6 - 1 = 0.6$

- $k = 5$  ;  $2r_5 = 1.2 \rightarrow d_5 = 1$   
 $\rightarrow r_6 = 1.2 - 1 = 0.2$

$$r = 0.6 = (0.1001100110011\dots)_2 = (0.\overline{10011})_2$$

$$\therefore 2324,6 = 2324 + 0.6 = 100100010100_{(2)} + 0.\overline{10011}_{(2)} = \mathbf{100100010100.\overline{10011}_{(2)}}$$

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	
$N_k$	
$a_k$	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	
$N_k$	
$a_k$	



$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	
$N_k$	
$a_k$	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0
$N_k$	
$a_k$	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0
$N_k$	3475
$a_k$	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0
$N_k$	3475
$a_k$	1

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1
$N_k$	3475	
$a_k$	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1
$N_k$	3475	1737
$a_k$	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1
$N_k$	3475	1737
$a_k$	1	1

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2
$N_k$	3475	1737	
$a_k$	1	1	



$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2
$N_k$	3475	1737	868
$a_k$	1	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2
$N_k$	3475	1737	868
$a_k$	1	1	0

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3
$N_k$	3475	1737	868	
$a_k$	1	1	0	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3
$N_k$	3475	1737	868	434
$a_k$	1	1	0	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3
$N_k$	3475	1737	868	434
$a_k$	1	1	0	0

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4
$N_k$	3475	1737	868	434	
$a_k$	1	1	0	0	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4
$N_k$	3475	1737	868	434	217
$a_k$	1	1	0	0	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4
$N_k$	3475	1737	868	434	217
$a_k$	1	1	0	0	1



$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5
$N_k$	3475	1737	868	434	217	
$a_k$	1	1	0	0	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5
$N_k$	3475	1737	868	434	217	108
$a_k$	1	1	0	0	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5
$N_k$	3475	1737	868	434	217	108
$a_k$	1	1	0	0	1	0

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5	6
$N_k$	3475	1737	868	434	217	108	
$a_k$	1	1	0	0	1	0	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5	6
$N_k$	3475	1737	868	434	217	108	54
$a_k$	1	1	0	0	1	0	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6
$N_k$	3475	1737	868	434	217	108	54
$a_k$	1	1	0	0	1	0	0

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7
$N_k$	3475	1737	868	434	217	108	54	
$a_k$	1	1	0	0	1	0	0	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7
$N_k$	3475	1737	868	434	217	108	54	27
$a_k$	1	1	0	0	1	0	0	



$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7
$N_k$	3475	1737	868	434	217	108	54	27
$a_k$	1	1	0	0	1	0	0	1

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8
$N_k$	3475	1737	868	434	217	108	54	27	
$a_k$	1	1	0	0	1	0	0	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8
$N_k$	3475	1737	868	434	217	108	54	27	13
$a_k$	1	1	0	0	1	0	0	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8
$N_k$	3475	1737	868	434	217	108	54	27	13
$a_k$	1	1	0	0	1	0	0	1	1

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9
$N_k$	3475	1737	868	434	217	108	54	27	13	
$a_k$	1	1	0	0	1	0	0	1	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9
$N_k$	3475	1737	868	434	217	108	54	27	13	6
$a_k$	1	1	0	0	1	0	0	1	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9
$N_k$	3475	1737	868	434	217	108	54	27	13	6
$a_k$	1	1	0	0	1	0	0	1	1	0

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10
$N_k$	3475	1737	868	434	217	108	54	27	13	6	
$a_k$	1	1	0	0	1	0	0	1	1	0	



$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10
$N_k$	3475	1737	868	434	217	108	54	27	13	6	3
$a_k$	1	1	0	0	1	0	0	1	1	0	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10
$N_k$	3475	1737	868	434	217	108	54	27	13	6	3
$a_k$	1	1	0	0	1	0	0	1	1	0	1

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10	11
$N_k$	3475	1737	868	434	217	108	54	27	13	6	3	
$a_k$	1	1	0	0	1	0	0	1	1	0	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \quad y \quad r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10	11
$N_k$	3475	1737	868	434	217	108	54	27	13	6	3	1
$a_k$	1	1	0	0	1	0	0	1	1	0	1	

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10	11
$N_k$	3475	1737	868	434	217	108	54	27	13	6	3	1
$a_k$	1	1	0	0	1	0	0	1	1	0	1	1



$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10	11
$N_k$	3475	1737	868	434	217	108	54	27	13	6	3	1
$a_k$	1	1	0	0	1	0	0	1	1	0	1	1



$$N = 3475 = 110110010011_{(2)}$$

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10	11
$N_k$	3475	1737	868	434	217	108	54	27	13	6	3	1
$a_k$	1	1	0	0	1	0	0	1	1	0	1	1



$$N = 3475 = 110110010011_{(2)}$$

*Para*  $r = 0.52$

$$b) 3475.52 = 3475 + 0.52 \rightarrow N = 3475 \text{ y } r = 0.52$$

$k$	0	1	2	3	4	5	6	7	8	9	10	11
$N_k$	3475	1737	868	434	217	108	54	27	13	6	3	1
$a_k$	1	1	0	0	1	0	0	1	1	0	1	1



$$N = 3475 = 110110010011_{(2)}$$

$$\text{Para } r = 0.52$$

$$\bullet k = 1 ; 2r_1 = 1.04 \rightarrow d_1 = 1 \wedge r_2 = 0.04$$

$$k = 2 ; 2r_2 = 0.08 \rightarrow d_2 = 0 \wedge r_3 = 0.08$$

$$k = 3 ; 2r_3 = 0.16 \rightarrow d_3 = 0 \wedge r_4 = 0.16$$

$$k = 4 ; 2r_4 = 0.32 \rightarrow d_4 = 0 \wedge r_5 = 0.32$$

$$k = 5 ; 2r_5 = 0.64 \rightarrow d_5 = 0 \wedge r_6 = 0.64$$

$$k = 6 ; 2r_6 = 1.28 \rightarrow d_6 = 1 \wedge r_7 = 0.28$$



- $k = 7 ; 2r_7 = 0.56 \rightarrow \boxed{d_7 = 0} \wedge r_8 = 0.56$
- $k = 8 ; 2r_8 = 1.12 \rightarrow \boxed{d_8 = 1} \wedge r_9 = 0.12$
- $k = 9 ; 2r_9 = 0.24 \rightarrow \boxed{d_9 = 0} \wedge r_{10} = 0.24$
- $k = 10 ; 2r_{10} = 0.48 \rightarrow \boxed{d_{10} = 0} \wedge r_{11} = 0.48$
- $k = 11 ; 2r_{11} = 0.96 \rightarrow \boxed{d_{11} = 0} \wedge r_{12} = 0.96$
- $k = 12 ; 2r_{12} = 1.92 \rightarrow \boxed{d_{12} = 1} \wedge r_{13} = 0.92$
- $k = 13 ; 2r_{13} = 1.84 \rightarrow \boxed{d_{13} = 1} \wedge r_{14} = 0.84$
- $k = 14 ; 2r_{14} = 1.68 \rightarrow \boxed{d_{14} = 1} \wedge r_{15} = 0.68$
- $k = 15 ; 2r_{15} = 1.36 \rightarrow \boxed{d_{15} = 1} \wedge r_{16} = 0.36$
- $k = 16 ; 2r_{16} = 0.72 \rightarrow \boxed{d_{16} = 0} \wedge r_{17} = 0.72$
- $k = 17 ; 2r_{17} = 1.44 \rightarrow \boxed{d_{17} = 1} \wedge r_{18} = 0.44$
- $k = 18 ; 2r_{18} = 0.88 \rightarrow \boxed{d_{18} = 0} \wedge r_{19} = 0.88$
- $k = 19 ; 2r_{19} = 1.76 \rightarrow \boxed{d_{19} = 1} \wedge r_{20} = 0.76$
- $k = 20 ; 2r_{20} = 1.52 \rightarrow \boxed{d_{20} = 1} \wedge r_{21} = 0.52$
- $k = 21 ; 2r_{21} = 1.04 \rightarrow \boxed{d_{21} = 1} \wedge r_{22} = 0.04$

$$r = 0.52 = (0.10000101000111101011100001\dots)_2 = (0.1\overline{00001010001111010111})_2$$

$$\begin{aligned}\therefore 3475.52 &= 3475 + 0.52 = 110110010011_{(2)} + 0.1\overline{00001010001111010111}_{(2)} \\ &= 110110010011.1\overline{00001010001111010111}_{(2)}\end{aligned}$$