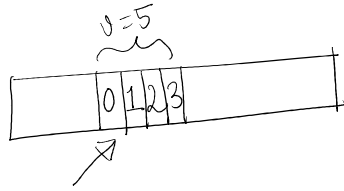


```
int v = 5;
int p = 7;
```



```
cout << v+p << endl; (2^step) = n
```

```
int *add = [v]  log2 = log2^n
```

$$\log_a^b = \frac{\log_a b}{\log_a a} = \frac{\log_e b}{\log_e a}$$

	step
1	0
2	1
4	2
8	3
16	4
32	5
64	6

$$\begin{aligned} \log_2^{step} &\leq \log(n) \\ \Rightarrow \log_2^{step} &\leq \log(n) \\ \Rightarrow \text{step} \cdot \log 2 &\leq \log(n) \\ \therefore \text{step} &\leq \frac{\log(n)}{\log(2)} \end{aligned}$$

$\text{step} \leq \log_2(n)$

5

0,0	0,1	0,2	0,3	0,4
1,0	1,1	1,2	1,3	1,4
2,0	2,1	2,2	2,3	2,4
3,0	3,1	3,2	3,3	3,4
4,0	4,1	4,2	4,3	4,4

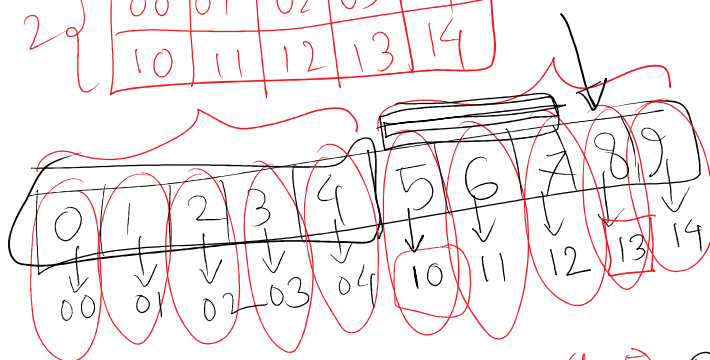
$i, j$	00	10	20	30	40
01	11	21	31	41	
02	12	22	32	42	
03	13	23	33	43	
04	14	24	34	44	

```
for(int i=0; i<n; i++)
{
    for(int j=0; j<m; j++)
    {
        cout << i << " " << j << endl;
    }
}
```

5 (m)

2 {

00	01	02	03	04
10	11	12	13	14



$n=2$   
 $m=5$

$1, 3 \rightarrow (1 \times 5) + 3 \rightarrow 8$

$1 \times 5 + 0 \rightarrow 5$

$511 \times 50 + 37$

$$x, y \rightarrow (x \cdot m) + y$$

$$[1][2] \rightarrow [1 \times 5 + 2] \rightarrow [7]$$