



Lab - 1



Lab 1 (Week of 14 August)

Question 1 - “The Last 3”

Problem Description

Input constraints

Input format

Output Format

Sample input and output

Solution

Question 2 - “Date Formats”

Problem Description

Input format

Output Format

Sample input and output

Solution

Lab 1 (Week of 14 August)

Question 1 - “The Last 3”

Problem Description

Given an integer n as input, print the last 3 bits of the number in its binary representation starting with the most significant bit among the three.

Note: The last three bits are the bits corresponding to the,

2^2 , 2^1 and 2^0 positions (in that order)

[Link to problem on OJ](#)

Input constraints

$$0 \leq n \leq 2^{31}$$

Input format

The only line of input contains a single integer n

Output Format

Output three space-separated bits denoting the last three bits of the given number starting with the most significant bit among the three.

Sample input and output

Sample Input	Sample Output
11	0 1 1
12	1 0 0

Solution

```
#include <stdio.h>

int main(void) {
    int n; scanf("%d", &n);
    printf("%d %d %d\n", !(n & 1), !(n & 2), !(n & 4));
    return 0;
}
```

Question 2 - “Date Formats”

Problem Description

Given a date in DD-MM-YY format, output it in MM-DD-YY format.

[Link to problem on OJ](#)

Input format

The only line of input contains a valid date in DD-MM-YY format.

Output Format

Output the date in MM-DD-YY format with no space separation.

Sample input and output

Sample Input	Sample Output
25-03-04	03-25-04

Sample Input	Sample Output
15-08-23	08-15-23

Solution

```
#include <stdio.h>
```

```
int main(void) {  
    int d, m, y;  
    scanf("%d-%d-%d", &d, &m, &y);  
    printf("%02d-%02d-%02d\n", m, d, y);  
    return 0;  
}
```