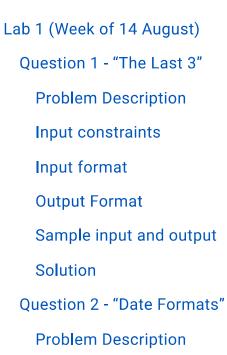
Lab - 1

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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

$$0 < n < 2^{31}$$

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;
}
```