

Introduction to Algorithm

Task Section 20

[Number 1](#) , [Number 2](#) , [Flowchart](#)

Number 1 - Check Prime Number
Documentation :

```
#include <iostream>
#include <math.h>

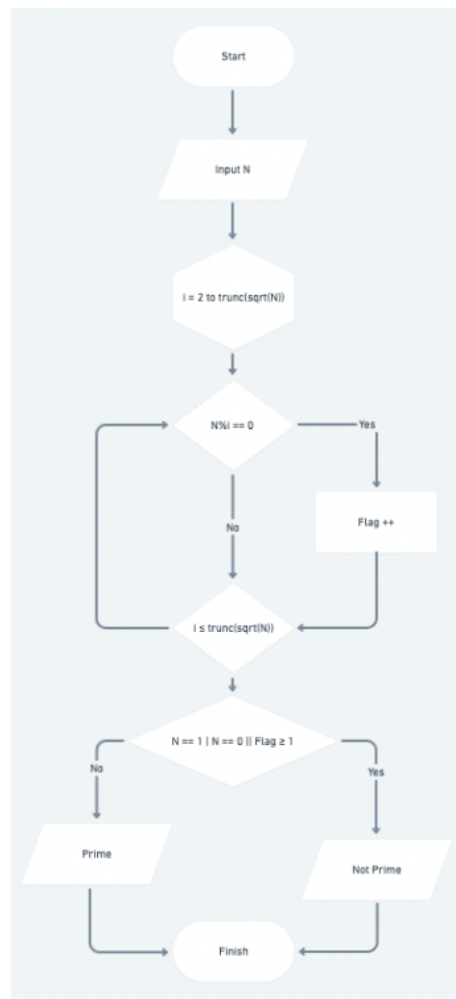
using namespace std;

int main ()
{
    int N;
    int flag = 0 ;

    cin >> N;

    for (int i = 2; i <= trunc(sqrt(N)); i++)
    {
        if(N%i == 0 ){
            flag++;
        }
    }

    if( N == 1 || flag >= 1 || N == 0)
    {
        cout << "Not Prime" << "\n";
    }
    else{
        cout << "Prime" << "\n";
    }
}
```



Number 2 – Lampu dan Tombol!

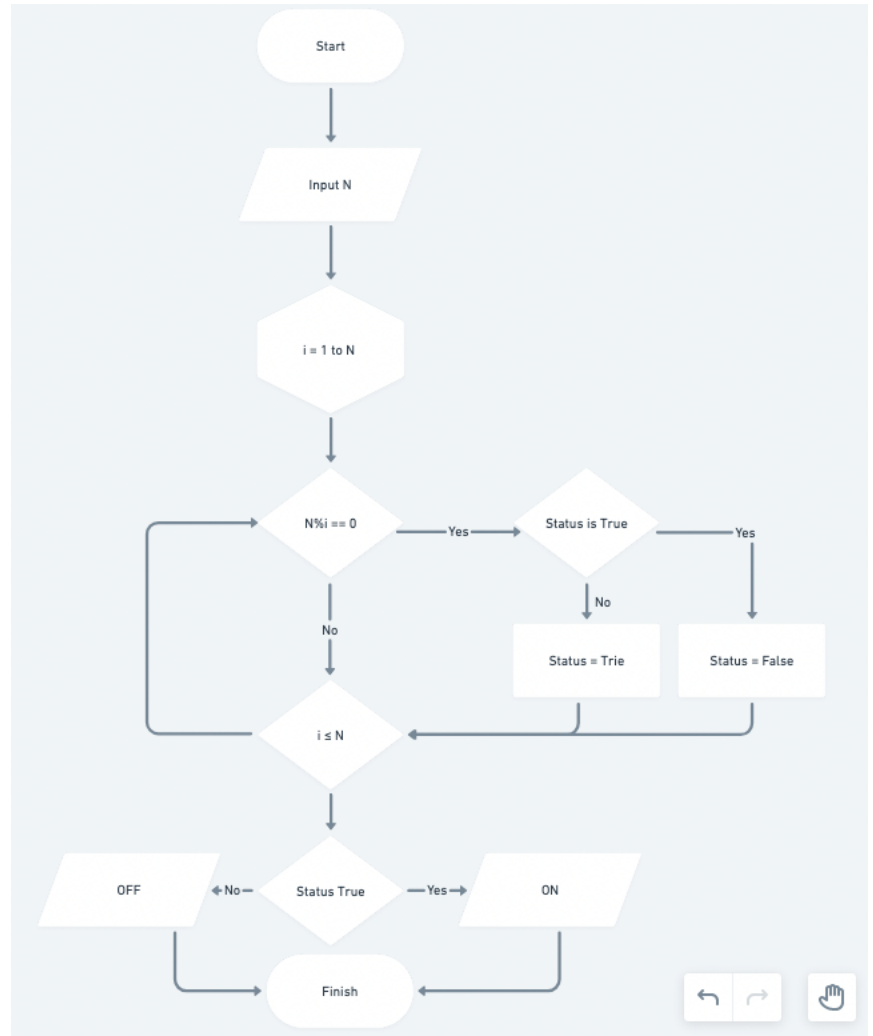
Documentation :

```
#include <iostream>

using namespace std;

int main(){
    int N ;
    bool status = false;
    cin>>N;
    for(int i = 1 ; i <= N ; i++){
        if(N%i == 0 ){
            if(status) status = false;
            else status = true;
        }
    }

    if(status){
        cout << "ON";
    }
    else{
        cout << "OFF";
    }
}
```



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