

## **CPP Tracing 3**

Another example of tracing with a larger program than the previous one will be as follows:

```
#include <iostream>
using namespace std;
int main() {
     int a, i;
     cin >> a;
     while (a) {
          //if a =0 it won't work
          if (a <= 2) {
             if (a == 2)
               cout << a << endl;
               break;
          int b = a/2;
          if (b * a != a) {
          for (i = 2; i * i <= a; i++)
              if (a \% i == 0)
          //if the remainder is 0 for will be stopped
                 break;
              if (i * i > a)
```

## www.gammal.tech



```
cout << a << endl;

//if i *i larger than a, the printing will be done
}

a--;

//the program will not not as long as a is not equal 0
}</pre>
```