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SOURCE CODE AND RAM DIAGRAM DISECTION OF THE SECOND C++ PROGRAM

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```
#include<iostream>
using namespace std;
int main(){
   int x;
   int y;
   int z;
   cout<<"Ingiza x"<<endl;</pre>
   cin>>x;
   cout<<"Ingiza y "<<endl;</pre>
   cin>>y;
   if(x>y){
       z = x/y;
    }
   else{
      z = y/x;
   cout<<"Jibu ni : "<<z<<endl;</pre>
```

return ∅;

}

RAM

FREE
FREE
FREE
FREE
FREE
FREE

State of the RAM before declaring any variable within the program

RAM

FREE

FREE

х у **RESERVED**

RESERVED

Z RESERVED

FREE

FREE

FREE

FREE

FREE

The state of RAM when the first and second variables "x" and "y" and "z" are declared.

RAM

X

У

Z

RESERVED

RESERVED

RESERVED

FREE

FREE

FREE

FREE

FREE

If(x>y)

The state of RAM when the two variables are compared, and a specific output is produced in which the results of the division is stored in variable "z"

x / y



