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

```
#include<iostream>
using namespace std;

int main(){
    int umri;

    cout<<"Ingiza umri wako "<<endl;
    cin>>umri;

if(umri >= 18){
        cout<<"Mtu mzima"<<endl;
    }
    else{
        cout<<"Bado Mtoto"<<endl;
}

return 0;</pre>
```

}

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### **RAM DIAGRAM OF umri.cpp Program**

#### **RAM**

FREE
FREE
FREE
FREE
FREE
FREE
FREE

State of the RAM before initializing or declaring any variable within the program

#### **RAM**

**FREE** 

#### umri



The state of RAM when the variable "umri" is declared

#### **RAM**

#### umri



Umri >= 18 ?

The state of the RAM when the selection condition is executed due to the stored value of age in the variable "umri"

#### **RAM**

FREE

**FREE** 

FREE

**FREE** 

**FREE** 

FREE

umri

19 Umri >= 18 ?

FREE The state

The state of the RAM when the user enters the value of age which is greater or equal to 18, and is stored int the variable "umri", hence used as a condition in the selection if statements to produce an output

**RAM** 

umri

Umri < 18?

The state of the RAM when the user enters the value of age which is less than 18, and is stored int the variable "umri", hence used as a condition in the selection if statements to produce an output