

```
#include <iostream>

#include <string.h>

class Student{

private:

std::string studentName;

int studentAge;


public:

//constructor

Student(std::string newName = "John Doe", int newAge=18){

studentName = std::move(newName);

studentAge = newAge;

std::cout << "Constructor Called." << std::endl;

};


//destructor

~Student(){

std::cout << "Destructor Called." << std::endl;

}

//Copy Constructor

Student(const Student &copyStudent){

std::cout << "Copy Constructor Called" << std::endl;

studentName = copyStudent.studentName;

studentAge = copyStudent.studentAge;

}

//Display Attributes

void printDetails(){

std::cout << this->studentName << " " << this->studentAge << std::endl;
```

```
}  
};
```

```
int main() {  
    const size_t j = 5;  
    Student studentList[j] = {};  
    std::string namesList[j] = {"Carly", "Freddy", "Sam", "Zack", "Cody"};  
    int ageList[j] = {15, 16, 18, 19, 16};  
    for(int i = 0; i < j; i++){ //loop A  
        Student *ptr = new Student(namesList[i], ageList[i]);  
        studentList[i] = *ptr;  
    }  
    /*for(int i = 0; i < j; i++){ //loop B  
        studentList[i].printDetails();  
    }*/  
    return 0;  
}
```