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| Student.h |
| Line# | Code |
| 12345678910 | #pragma onceclass Student { public: const char\* Name; unsigned char Age; float CGPA; inline Student(const char\* name, unsigned char age, float cgpa); inline Student(); inline ~Student();}; |

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| Student.cpp |
| Line# | Code |
| 12345678910111213141516 | #include <iostream>using namespace std;#include "Student.h"Student::Student(const char\* name, unsigned char age, float cgpa) : Name(name), Age(age), CGPA(cgpa) { cout << "Calling Student(name, age, cgpa) for " << Name << endl;}Student::Student() : Name("<No Name>"), Age(18), CGPA(4.0F) { cout << "Calling Student() for " << Name << endl;}Student::~Student() { cout << "Calling ~Student() for " << Name << endl;} |

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| **EX12-01.cpp: *malloc*** *Vs* ***new*** |
| **Line#** | **Code** |
| 1234567891011121314151617181920212223242526272829 | #include <iostream>using namespace std;#include "Student.h"int main() { //int\* pi = (int\*)malloc(5 \* sizeof(int)); //free(pi); //int\* pi = new int(5); //delete pi; //int\* pi = new int[5]; //delete[] pi; //Student\* ps = new Student("Yong Tau Foo",21,3.1F); //Student\* ps = new Student[5]; Student\* ps = (Student\*)malloc(5 \* sizeof(Student)); //cout << "Do something here...\n"; //cout << "Use student " << ps->Name << endl; //delete ps; //delete[] ps; free(ps); cout << "main() is ending..." << endl; return 0;} |