

1. What is the Output of Following Code?

<pre> class Studentinfo { public: Studentinfo() { cout << "Studentinfo() called.\n"; } }; class Students { public: Students() { cout << "Students() called.\n"; } Studentinfo info; }; class AcademicInstitutions { public: AcademicInstitutions() { cout << "AcademicInstitutions() called.\n"; } }; </pre>	<pre> class Universities: public AcademicInstitutions { Students s; public: Universities() { cout << "Universities() called.\n"; } }; class PrivateUniversity : public Universities { public: PrivateUniversity() { cout << "PrivateUniversity() called.\n"; } }; void main(){ PrivateUniversity pu; } </pre>
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AcademicInstitutions() called.
 Studentinfo() called.
 Students() called.
 Universities() called.
 PrivateUniversity() called.

2. What is the Output of Following Code?

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class M {
public:
    virtual void MyMemory() { cout << "I forget "; };
    void Disk() { cout << "Space "; };
    void Erased() { cout << "For good "; };
    void ThisExam() { Erased(); MyMemory(); };
    virtual ~M() {}
};
class N : public M {
public:
    void MyMemory() { cout << "Gone "; };
    void Disk() { cout << "Slipped "; };
    void virtual Erased() { cout << "Rubbed out "; };
};

int main()
{
    M * m1 = new N;
    m1->MyMemory();
    m1->Disk();
    m1->ThisExam();
    cout << endl;

    M m2 = *(new N);
    m2.MyMemory();
    m2.Disk();
    m2.ThisExam();
}

```

Gone Space For good Gone I forget Space For good I forget