Dashboard ⟩ My courses ⟩ SECJ1023-09 ⟩ 14 March - 20 March ⟩ STRUCTURED QUESTION - 1 HOUR

Time left 0:43:03

Question 1

Incomplete answer

Marked out of 15.00

Figure 1 below shows the screen output of **Program 1**.
In **Program 1**, you will create a test object and class with private member variables and public member functions.
Answer all the questions below and fill in the blanks in the **Program**.

```
------------------------------------------------------------------------
        List of Questions and Marks in the Test
------------------------------------------------------------------------
1       1       What is a class?
2       1       What is an object?
3       1       What is the use of private member?
4       2       What is the difference between private and public access specifiers?
5       2       Identify the private members in this program.
6       3       Identify the public members in this program.
------------------------------------------------------------------------
Total   10 marks
```

Figure 1: Screen output of the Program below.

```
// Program 1
#include <iostream>
#include <string>
#include <cstring>
using namespace std;

class [ test ] {

        [ public ] :
                string question;
                int mark;

        [        ] :
                // mutator or set function
                void setMark(string, int);
                // accessor or get function
                int getMark() const;
                // inline member function for getQuestion()
                [ void getQuestion() const ] { return question; }
};
// member definitions
[                                        ] {
        [                    ]
        [                    ]
}
int test::getMark() const { return mark; }

int main(){
        // object definition
        [            ]
        q1.setMark("What is a class?",1);
        [            ]
        q2.setMark("What is an object?",1);
```

```
        test q3;
        [            ].setMark("What is the use of private member?",1);

        test q4;
        q4.setMark("What is the difference between private and public access specifiers?",2);

        test q5;
        q5.setMark("Identify the [            ] members in this program.",2);

        test q6;
        q6.setMark("Identify the public members in this program.",3);

        string line="\n--------------------------------------------------------------------------------------\n";
        cout<<line<<"\tList of Questions and Marks in the Test"<<line;
        cout<<"1"<<"\t"<<q1.getMark()<<"\t"<<q1.getQuestion()<<endl;
        cout<<"2"<<"\t"<<q2.getMark()<<"\t"<<q2.getQuestion()<<endl;

        cout<<"3"<<"\t"<<q3.getMark()<<"\t"<<[            ].getQuestion()<<endl;

        cout<<"4"<<"\t"<<q4.getMark()<<"\t"<<q4.getQuestion()<<endl;
        cout<<"5"<<"\t"<<q5.getMark()<<"\t"<<q5.getQuestion()<<endl;
        cout<<"6"<<"\t"<<q6.getMark()<<"\t"<<q6.getQuestion();

        string ms;
        int total;
        total=q1.getMark()+q2.getMark()+[        ].getMark()+q4.getMark()+q5.getMark()+q6.getMark();

        if(total>1) ms=" marks";
        else if (total==1) ms=" mark";
        cout<<line<<"Total\t"<<total<<ms<<endl;
        return 0;
}
```

1. What is the private members in this program?

   [_____]

2. Which command shows the following output: "Identify the public members in this program"?

   [_____]

Please answer all parts of the question.

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