

7.8.09

1. Which of these identifiers would you use for your programs in this class?

N*3	totalprice	Total_Price	total-price
3s_Company		hourlyPay	Spock
double i	my name	temp	the_11th_hour

2. What are reserved words?

3. Determine the data type, identifier, and initial value:

- const int total = 0;
- string name = "Picard";
- double myValue;

7.13.09

1. Fill in the two methods:

```
double box_surface_area(double length, double width, double height)
{
    return (2*length * width + 2* length * height +2* height * width);
}
double box_volume (double length, double width, double height)
{
    return
```

2. Does the following function work correctly?

```
double cube_surface_area (double side)
{
    return box_surface_area ( side, side, side ) ;
}
```

3. Find any errors:

```
int main {
    int payment;
    payment = int(monthlyPayment());
    cout << 'Payment is: ' << payment;
    return 0;
}
double monthlyPayment()
{
    double toPay;
    toPay = ( .06 + (.06 / ( ( 1.06 ) ^ 10 - 1 ) ) ) * 2500;
    return toPay;
}
```

7.14.09

111111111112

012345678901234567890

```
string x = "Live Long and Prosper";
```

```
string y = "Rules of Acquisition";
```

Find the error or state what is printed out.

1. `cout << x.find("Long");`
2. `cout << x.length() - y.size();`
3. `cout << y.substr(0, 8);`
4. `x = x.substr (x.find(" ") + 1, 16);`
`cout << x;`

7.15.09

1. What is the output with the following input stream and code?

Input stream:

```
string input;  
cin >> input;  
cout << input << endl;  
getline(cin, input);  
cout << input << endl;
```

2. What is the output of the following code?

Input stream: 3 6 8 2 9

```
int min;  
int readInt;  
cin >> readInt;  
min = readInt;  
cin >> readInt;  
if ( readInt < min)  
{  
    cout << "Found New Min: " << readInt << endl;  
    min = readInt;  
}  
cout << "Finished";
```

7.16.09

1. Find the error getting the second token:

```
string inputLine = "BowlingFrames 8 10 16 33 56 61 69 73 81 90";
string nextToken;
int nextSpace = inputLine.find(" ");
int length = inputLine.length();
nextToken = inputLine.substr(0,nextSpace);
inputLine = inputLine.substr(nextSpace+1, length-nextSpace);
cout << "nextToken: " << nextToken << endl << endl;

nextSpace = inputLine.find(" ");
length = inputLine.length();
nextToken = inputLine.substr(0,nextSpace);
inputLine = inputLine.substr(nextSpace+1, length-nextSpace);
cout << "nextToken string: " << nextToken << endl;
```

2. Find the errors in reading two lines from a file.

```
#include <iostream>
#include <string>
using namespace std;
int main()
{
    ifstream In;
    In.open( "inputs.txt");
    string text;
    getline(In, text);
    cout << text << endl;
    getline(In, text);
    cout << text << endl;
    In.close();
    return 0;
}
```

7.20.09

1. Determine which blocks are executed.

```
int a=0, b=1, c=2, d=3;
```

```
if( a < b && c > d )
```

```
    //Block 1
```

```
else if( a < d || 10 < d )
```

```
    //Block 2
```

```
else
```

```
    //Block 3
```

```
if( !( a >= d ) && c > d )
```

```
    //Block 4
```

```
else if( a == 0 )
```

```
    //Block 5
```

```
else
```

```
    //Block 6
```