

Problems 1 through 4 use this String variable:

String str = /\* initialized with valid data, you don't know how long it is \*/

1. Write code to print the first character of str:

S.O.P.(str.substring(0,1));

2. Write code to print the last character of str:

S.O.P.(str.substring(str.length()-1));

3. Write code to print the first half of str:

S.O.P.(str.substring(0, str.length()/2));

4. Write code to print the location of the first space found in str.

S.O.P.(str.indexOf(" "));

5. Write code to print the last half of String str then the first half of String str jammed together as a new word. Assume that str has an even length. For example, "catsup" would become "supcat".

S.O.P.(str.substring(str.length()/2) + str.substring(0, str.length()/2));

6. Finish the following line to store a random integer between -7 and 3 inclusive:

int x = (int)(Math.random()\*11)-7;

Problems 8 and 9 use the following methods:

```
public void A(int n)
{
    n--;
    System.out.print(n);
}
```

```
public void A()
{
    System.out.println("$");
}
```

Problems 10 and 11 use the following method:

```
public int B(int n)
{
    n+=5;
    return n;
}
```

8. What is printed by the following?

```
A(5);    4$
A();     5
A(6);
```

9. What is printed by the following?

```
A();     $
A(10);   9$
A();
```

10. What is output by the following?

```
System.out.println(B(7)+B(6));
                    12  11
                    23
```

11. What is output by the following?

```
System.out.println(B(12/2));
                    13
                    11
```