

AP COMPUTER SCIENCE A – QUIZ #2 STUDY GUIDE

Questions **15** and **16** concern an array `hot` which is initialized as

```
char [] hot = new char [] { 'd' , 'o' , 'g' };
```

15) What would be the output of the code segment?

```
hot[1]='i';
for ( int i=2; i>-1; --i ) {
    System.out.print(hot[i]);
}
System.out.println();
```

Ans.
gid

16) What would the code segment print out?

```
String s="";
int k=3;
for ( int i=0; i<3; ++i ) {
    --k;
    s += ( Integer.toString(i)
          + Character.toString(hot[k]) );
}
System.out.println(s);
```

Ans.
0g1o2d

Problems **17** and **18** concern the code segment

```
int x=58;
type y=(x<42);
System.out.print("y = ");
System.out.println(y);
```

17) What primitive type should `type` be?

Ans.
boolean

18) What is the output of the code segment?

Ans.
y = false

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19) What is the output of the code segment?

```
double x=42.78;
if ( ( x > 70.0 ) || ( x < 40.0 ) ) {
    System.out.println("SpongeBob");
}
else {
    System.out.println("Squidward");
}
```

Ans.

Squidward

20) What is the output of the code segment?

```
char letter;
double d=79.4;
/**/
if ( d >= 89.5 ) letter='A';
else if ( d >= 79.5 ) letter='B';
else if ( d >= 69.5 ) letter='C';
else if ( d >= 59.5 ) letter='D';
else letter='F';
/**/
System.out.print("letter = ");
System.out.println(letter);
```

Ans.

letter = C

21) If the program

```
public class Quiz2StudyGuide {
    public static void main ( String [] arg ) {
        System.out.println(arg[2]);
        return;
    }
}
```

is run via

```
java Quiz2StudyGuide SpongeBob Squidward Patrick Gary
```

what would be the output?

Ans.

Patrick

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Problems **22** through **26** concern the program

```
public class RunStuff {
    /**/
    public static void main ( String [] arg ) {
        /**/
        if ( arg.length != 1 ) {
            System.out.println(1);
            return;
        }
        /**/
        int i=-1;
        try {
            i=Integer.parseInt(arg[0]);
        }
        catch ( NumberFormatException nfe ) {
            System.out.println(2);
            return;
        }
        /**/
        if ( ( i < 1 ) || ( i > 100 ) ) {
            System.out.println(3);
            return;
        }
        /* line 23 */
        System.out.println(4);
        /**/
        return;
    }
}
```

22) If the program is run via

```
java RunStuff Gary
```

what is the output?

Ans.

2

23) If the program is run via

```
java RunStuff 102
```

what is the output?

Ans.

3

24) If the program is run via

```
java RunStuff 78
```

what is the output?

Ans.

4

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25) If the program is run via

```
java RunStuff 1 2
```

what is the output?

Ans.

1

26) If line 23 is reached in the code, what can you say about the value of `i`?

Ans.

`i` is a valid `int` such that $1 \leq i \leq 100$.