

Exam 2 – 2017- Spring KEY

```
String str = "abcd";  
System.out.println(str.charAt(3));           // 1pt  
System.out.println(str.length());          // 1pt
```

d
4

```
int[] numArray = { 5, 10, 15, 20, 25 };  
System.out.println(numArray[4]);           // 1pt  
System.out.println(numArray.length)       // 1pt
```

25
5

what is the output -----

xx: 6
yy: 21
zz: 9
lcv: 7

doSomething trace -----

<>
<ABC>
<4.98>
<>
<7-9-2>

isSomething trace -----

false
false
true
true
false

printTriangles -----

```
public void printTriangle (int num) {  
    for (int row=1; row<=num; row++) {  
        for (int r=0; r<row; r++){  
            System.out.print("*");  
        }  
        System.out.println("*");  
    }  
}
```

leftPad -----

```
public String leftPad(String s, int spaces) {
    String paddedString = "";

    for (int i=0; i<spaces; i++)
        paddedString += ' ';

    paddedString += s;

    return paddedString;
}
```

genRandomNum -----

```
public int genRandomNum(int bound1, int bound2)
{
    Random rnd = new Random();

    int lo = bound1;
    int hi = bound2;

    if (bound1 > bound2) {
        lo = bound2;
        hi = bound1;
    }
    return rnd.nextInt(hi-lo+1) + lo;
}
```

isDigit -----

```
public boolean isDigit(char c) {
    return (c >= '0' && c <= '9');
}
```

countDigits -----

```
public int countDigits(String s) {
    int cnt=0;

    for (char c: s.toCharArray())
        if (isDigit(c))
            cnt++;

    return cnt;
}
```

allDigits -----

```
public boolean allDigits(String s) {
```

```

boolean result = true;

if (s.length() == 0)
    result = false;

int pos=0;
while (!result && pos < s.length() ) {
    if (!isDigit(s.charAt(pos)))
        result = false;
}
return result;
}

```

lastDay -----

```

public int lastDay(int month) {

    int date=0;

    if (month==2)
        date=28;
    else if (month <=0 || month > 12)
        date=0;
    else if (month==4 || month==6 || month==8 || month==11)
        date=30;
    else
        date=31;

    return date;
}

```

isPayDay -----

```

public boolean isPayday(int m, int d) {
    boolean payday = false;

    if (d==15 || d==lastDay(m) )
        payday = true;

    return payday;
}

```

Write code for a pass fail test case for the allDigits method testing this case:

```
allDigits("$4,567") --> false
```

```
sop(allDigits("$4,567")?:"Fail":"Pass");
```