

Name _____ Date: _____

Review on String Parsing and Loops

Strings

- 1.)
- a.) What type does the method *length* return? ____int____
 - b.) What type does the method *substring* return? ____String____
 - c.) What type does the method *indexOf* return? ____int____
 - d.) What type does the method *charAt* return? ____char____
- 2.) Suppose you have the variable *myString* of type String with data “Go Tar heels! Beat Dook!” Write out the data stored in *myString* and place the index of each character below the string. (See page 83 if you have questions)

G	o		T	a	r		H	e	e	l	s	!		B	e	a	t		D	o	o	k	!
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

- 3.) Give the return type and data of the following method calls on *myString* (defined in question 2).
- a.) *myString.length()*;

int len = 24;
 - b.) *myString.trim()*;

String theString = “Go Tar Heels! Beat Dook!”
 - c.) *myString.substring(7)*;

String sub = “Heels! Beat Dook!”;
 - d.) *myString.indexOf(“!”)*;

int index = 12;
 - e.) *myString.lastIndexOf(“ ”)*;

int index = 18;

Loops

- 4.) What is the value of *temp* at the end of the loop for the following input? 5
4 6 2 7 6 4 1 9 8 -1

```
System.out.print("Please input an int: ");
int input = kb.nextInt();
int temp = 0;
while (input > 0)
{
    if(input > 5)
        temp++;
    System.out.print("Please input an int: ");
    input = kb.nextInt();
}
```

What is a better name for *temp* (Think about what the program is doing)?
greaterthan5 (there are many good names)

- 5.) What is the value of *temp* at the end of the loop for the following input? 10
3 5 -1 7 4 10 4 10 6

```
System.out.print("Please input an int: ");
input = kb.nextInt();
int temp = input;
for(int i = 0; i < 7; i++)
{
    if(input > temp)
        temp = input;
    System.out.print("Please input an int: ");
    input = kb.nextInt();
}
```

What is a better name for *temp* (Think about what the program is doing)? max

- 6.) What is the value of *temp* at the end of the loop for the following input? 44
4 7 2 8 4 5 9 1 1 3 -1

```
int temp = 0;
do
{
    System.out.print("Please input an int: ");
    input = kb.nextInt();
    temp += input;
}while(input > 0);
```

What is a better name for *temp* (Think about what the program is doing)? sum