Worksheet 5: Collections

Name: _____

1. Given the array list at right, what is the value of each expression below:

	list
0	5
1	17
2	42
3	1
4	10
5	0

```
list[0]          _____
list[2]          _____
list[3]+list[4]  _____
int i = 4;
list[i]          _____
list[i+1]        _____
list[i]+1        _____
list[list[3]]    _____
```

2. Write the code to perform the following tasks:

a. Create an array of 10 integers.	
b. Create an array of 5 strings.	
c. Get the value of the 4th item of an array named **names**.	
d. Get the value of the 10th item of an array named **list**.	
e. Get the value of the item at index 7 in the **list** array.	
f. Get the value of the item at index i in the **list** array.	
g. Assign a value of 42 to the 6th item of the **values** array.	
h. Assign a value of "Fred" to the 3rd item of the **names** array	
i. Assign a value of 10 to the item in the **list** array at index 0.	

3. Fill in the contents of the list2 array from executing this code:

```
int[] list2 = new int[6];
list2[0] = 1;
list2[1] = 3;
list2[2] = 5;
int i = 3;
while (i < 6)
{
    list2[i] = list2[i-1] + 1;
    i++;
}
```

	list2
0	
1	
2	
3	
4	
5	

4. Write the code to create an array of 100 integers and assign the values from 1-100 to the items in that array.