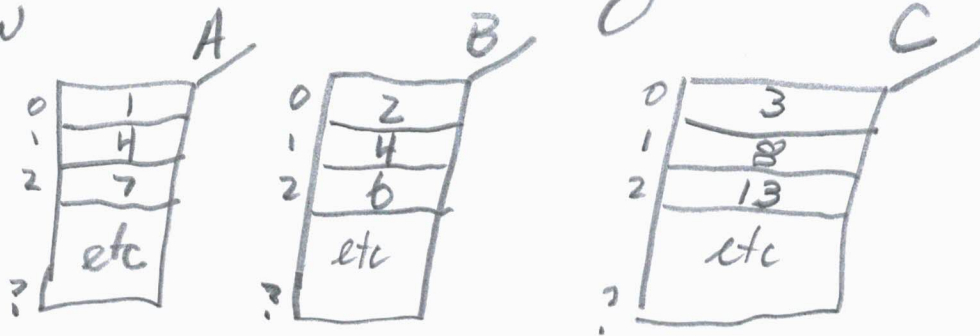


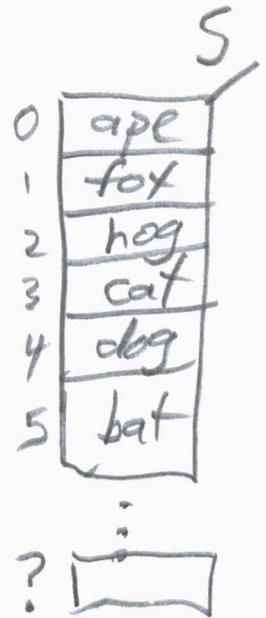
Java Array Questions

1. What are 2 words which mean the same as array?
(a)
(b)
2. Declare a 1000 element integer array
3. Name 5 unique Java data types
 - 1.
 - 2.
 - 3.
 - 4.
 - 5.
4. Using a method, output the number of elements in array B.
`boolean[] B = new boolean[50];`
5. Write a loop to initialize all 50 elements to false in the B array defined in #4.
6. When you declare a String array and before you populate the array, what value exists in each element?

7. Add the values in arrays A & B and place the sum in array C as demonstrated below



8. Consider the string array S
 (a) Write the Java output statement which would display
 The fox chased the cat



(b) Output the number of elements in array, S

9. Declare array `m`. Note `m[0]` to `m[20]` exist and are populated, but are not shown.

	⋮
<code>m[21]</code>	2.7
<code>m[22]</code>	3.1
<code>m[23]</code>	4.8

Write the assignment statements to populate `m[21]` to `m[23]`

10. Declare and populate array `num` in one Java line

0	7
1	3
2	8

11. Using the variable "temp" switch the 3 & 4

	R
3	
8	
4	

before

	R
4	
8	
3	

after

--

 temp

12.

	marks
10.5	0
8.1	1
etc	
11.0	75

(a) Write a loop to calculate the sum of all of the entries in marks

sum

count

(b) Write a loop to calculate, "count" which is the count of the number of entries greater or equal to 20.0

13.

a

	c
2	
4	
1	
8	

What is displayed if the following are output to the console?

(a) $c[2]$ _____

(e) $c[--a]$ _____

(b) $c[a]$ _____

(f) $a + c[3]$ _____

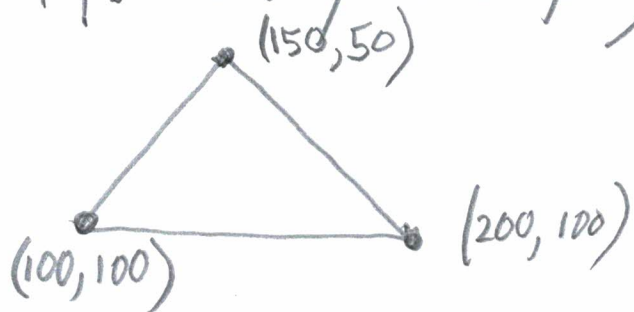
(c) $c[a-1]$ _____

(g) $c.length$ _____

(d) $c[a--]$ _____

(h) $c[0] + c[3]$ _____

14. Study the polygon below.

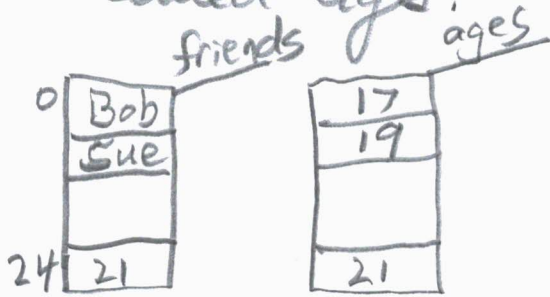


(a) declare and populate the two arrays below with the correct coordinates so that
c. fill Polygon(cols, rows, 3);
will display the triangle.

15. Calculate the average mark in the list of student grades. Assume list is populated.
grades
 $\text{int}[] \text{grades} = \text{new int}[100];$

0	70
1	80
2	65
	⋮
99	50

16. Declare a 25 element string array called friends and a 25 element integer array called ages.



Assume that the two arrays are already populated

(a) Output your youngest friend's name

(b) Output how many friends you have who are 19

(c) A year goes by, increase the age of each friend by 1 year.

17. You have to store 3 colours into an array called, colours. They are #FFFFFF, #000000 and #DECEAE.
Declare an array and populate it with the three colours above

Study the vectors shown below

A

0	a
	x
	y
49	z

B

0	bob
1	rat
2	cat
3	dog
4	ape

C

0	7
1	8
2	1
3	2
4	4
5	-13

D

0	3.8
1	4.2
2	7.1
	:
12	11.8

E

0	true
1	false
2	true
	:
46	false

18. Declare the A array

19. Declare and populate the B list on one line.

20. Declare the C array

21. Declare the D vector

22. Declare the E list

What would be displayed if the following were printed to the console display

23. $B[4]$

24. $D[2]$

25. $E[2]$

26. $A[C[2]]$

27. $D[C[1]]$

28. $E[C[3]]$

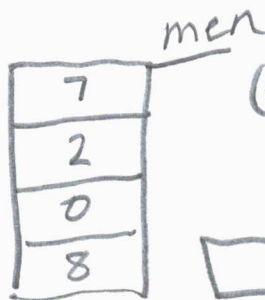
29. $C[0] - C[4]$

30. $B[C[3]]$

31. Write a loop to subtract 1 from each element of the C array.

32. How many true values exist in the E array

33.

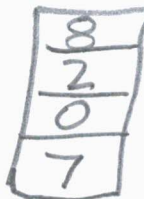


(a) declare and populate the "men" list

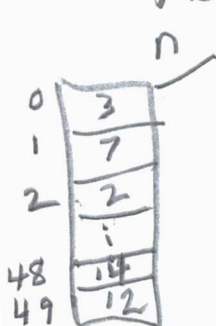


before

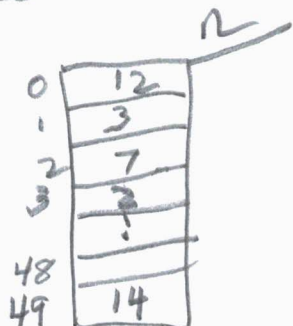
(b) using the temp variable, interchange the first and last element so that the array looks like this



34. Rotate all the elements down one slot. Place the last element in the first slot



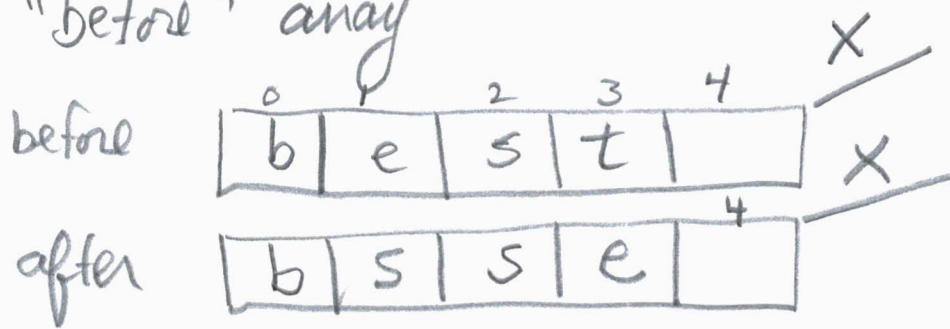
Before



after



35. Write the assignment statements necessary to create the "after" array, using the "before" array



36. Declare a list of 50 doubles called, num

Populate each element with its position in the array. For example

