What is the major disadvantage of using dynamic data structure? Which of the following data structures does not allow duplicates? O a. the overhead to grow it when the structure becomes full O a. Tree O b. may result in under-estimate of memory usage O b. queue O c. need to provide a good estimate of memory usage in advance O d. may over-estimate memory usage O c. bag O e. waste of memory space O d. list ● e. set What is the average cost of insertion in an ArrayList with N items inside? O a. O(1) O b. O(NLogN) Which of the following is not correct in Java? ○ c. O(N*N) O a. An Iterator interface must define a remove() method. O b. A Comparator interface must define a compareTo() method. O d. O(LogN) c. An Iterator interface must define a next() method. ○ e. O(N) d. A Scanner() is an iterator O e. An Iterable class must implement inside it an iterator. Clear my choice Which of the following is not in-place sorting? O a. selection sort O b. bubble sort Data insertion in a linked list is achieved by? O c. insertion sort O a. changing of elements O d. merge sort \circ b. None of the others are true O e. quick sort O c. changing of stacks O d. changing of links \circ e. changing of indices In the process of converting "3 + k / t" into postfix expression, how many stack push operations need to be performed? O a. 2 Traverse the list by following the links O b. 0 Insert by changing links O c. 1 Remove by changing links O d. 3 Derive a **maximum** spanning tree (MST) for the following graph. What is the total cost for the MST derived? O e. 5 10 3.2.4.1 中缀转换为后缀表达式 TRANSFORMING INFIX TO POSTFIX 转换规则: 12 中缀表达式中的符号 行为 添加到輸出后缀表达式的末尾 操作数 入栈 如果遇到的符号比栈顶的符号优先级高,入栈; +. -. *. / 否则,弹出栈顶符号加入到输出后缀表达式末尾,再入栈 O d. 32 左括号 右括号 把栈顶的操作符弹出,添加到输出后缀表达式末尾,直到

Which of the following is not a linear data structure?

O a. list

O c. queue

O d. tree

e. stack

O b. priority queue

遇到与它匹配的左括号为止

Which of the following is not correct in Java?

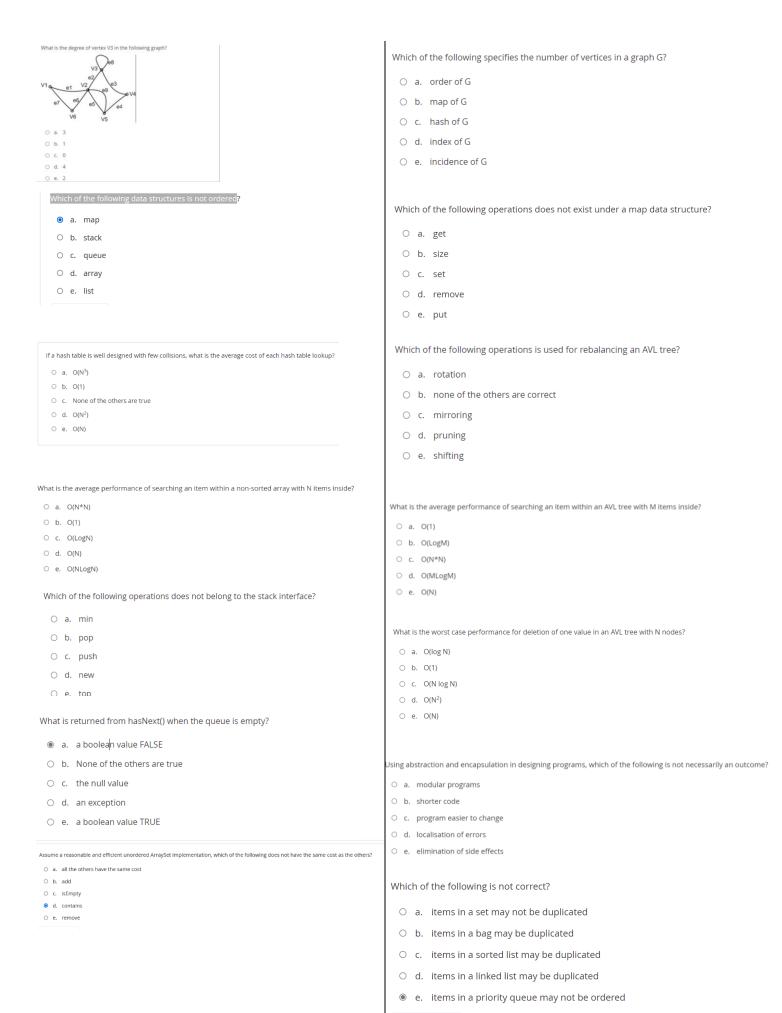
O b. Classes can extend other classes

o c. Java can have "type parameter"

d. Classes can implement interfacese. Abstract classes can extend other classes

Clear my choice

O a. Interfaces can extend other interfaces



0	a.	decoding
0	b.	dynamic data type
0	C.	privacy
0	d.	watermarking
0	e.	encoding
What is the best language to study data structures?		
) a.	c
C	b.	Assembly
) c.	Java
C	d.	C++
(6)	е.	None of the others are true. Language is not an issue.
c	lear n	ny choice

Which of the following is TRUE for hash table design?

Which of the following is related to the "information hiding" design principle?

- $\bigcirc \hspace{0.1in}$ a. Table size is usually prime to avoid bias
- $\, \bigcirc \,$ b. A hash function is needed to generate random numbers
- O c. Information hiding is used to hide keys
- O d. None of the others
- \bigcirc e. Huffman coding is applied in the design