The item that is removed first from a stack is called the \_\_\_\_\_\_ of the stack.

Selected Answer:

a.

top

Question 2

0.6 out of 0.6 points

Typically, \_\_\_\_\_\_ are used by a compiler to implement recursive methods

Selected Answer:

a.

stacks

Question 3

0.6 out of 0.6 points

Given the language L, where:

L = {w$w’ : w is a possibly empty string of characters other than $, w’ = reverse(w) },

which of the following strings is NOT in L?

Selected Answer:

c.

XYZ$ZXY

Question 4

0 out of 0.6 points

Which of the following is NOT true about converting infix expressions to postfix expressions?

Selected Answer:

d.

all parentheses are removed

Question 5

0.6 out of 0.6 points

When a recursive call to a method occurs, the compiler’s implementation must remember all of the following information EXCEPT

Selected Answer:

a.

values of global variables

Question 6

1 out of 1 points

What is the value of the following postfix expression:: 5 2 – 8 4 + \*

Selected Answer:

36

Question 7

0.6 out of 0.6 points

Which of the following is the postfix form of the infix expression: (a /b) \* (c +d)

Selected Answer:

a b / c d + \*

Question 8

0.6 out of 0.6 points

The \_\_\_\_\_\_ method of the ADT stack retrieves and then removes the top of the stack.

Selected Answer:

a.

pop

Question 9

0.6 out of 0.6 points

The \_\_\_\_\_\_ method of the ADT stack adds an item to the top of the stack.

Selected Answer:

a.

push

Question 10

0.6 out of 0.6 points

The \_\_\_\_\_\_ method of the ADT stack retrieves the top of the stack, but does not change the stack

Selected Answer:

d.

peek

Question 11

0.6 out of 0.6 points

Which of the following methods of the ADT stack accepts a parameter?

Selected Answer:

d.

push

Question 12

0.6 out of 0.6 points

Which of the following strings contains balanced braces?

Selected Answer:

b.

{abc{de}{fg}hij}kl

Question 13

0.6 out of 0.6 points

The pop operation throws a StackException when it tries to \_\_\_\_\_\_.

Selected Answer:

a.

delete an item from an empty stack

Question 14

0.6 out of 0.6 points

What is the corrected input if the following line is typed on a keyboard: yww←dshr←←wd←e

(where ← represents the backspace character)?

Selected Answer:

a.

ywdswe

Question 15

0.6 out of 0.6 points

In the StackInterface class, the push method accepts as its parameter an item that is an instance of \_\_\_\_\_\_.

Selected Answer:

c.

Object

Question 16

0.6 out of 0.6 points

If the numbers 6, 2, 7, 13, 5, 4 are added to a stack, in the order given, which number will be the first number to be removed from the stack?

Selected Answer:

b.

4

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