NetExam

Sri Lanka Institute of Information Technology

Question 4

Not yet answered

Marked out of 1.00

Flag question

Use RAM Model to compute the step count of the following pseudo code.

```
j ← 0
n ← 1
while j<=5
        j ← j + 1
        while n <= 0
                n ← n + 1
```

Select one:

- a. 27 steps
- b. 21 steps
- c. 2 steps
- d. 63 steps
- e. 22 steps

Next page

≡ Quiz

Finish atte

Time left 1:

1 2

8 9

15 16

22 23

FEEDBACK

25

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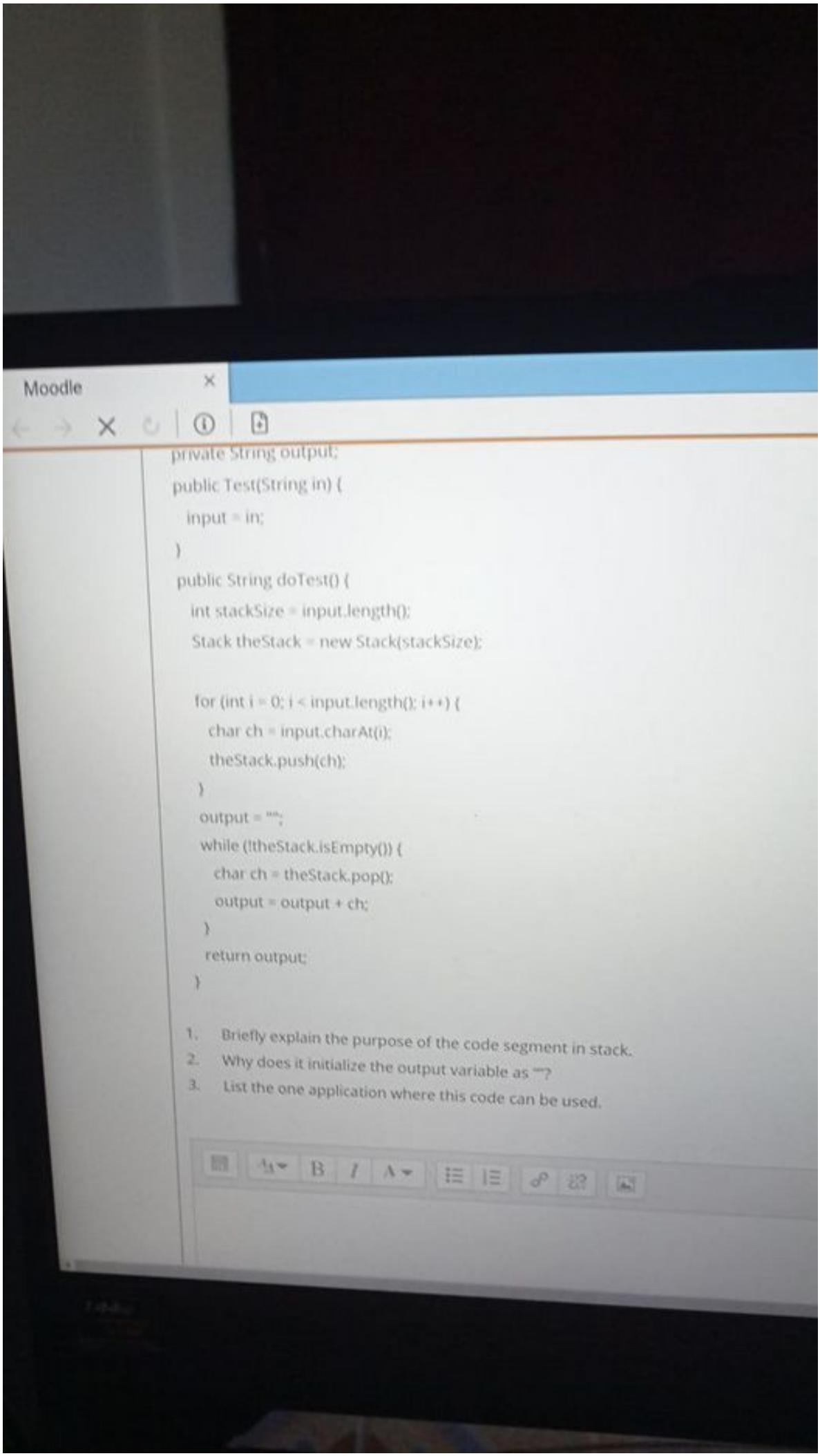
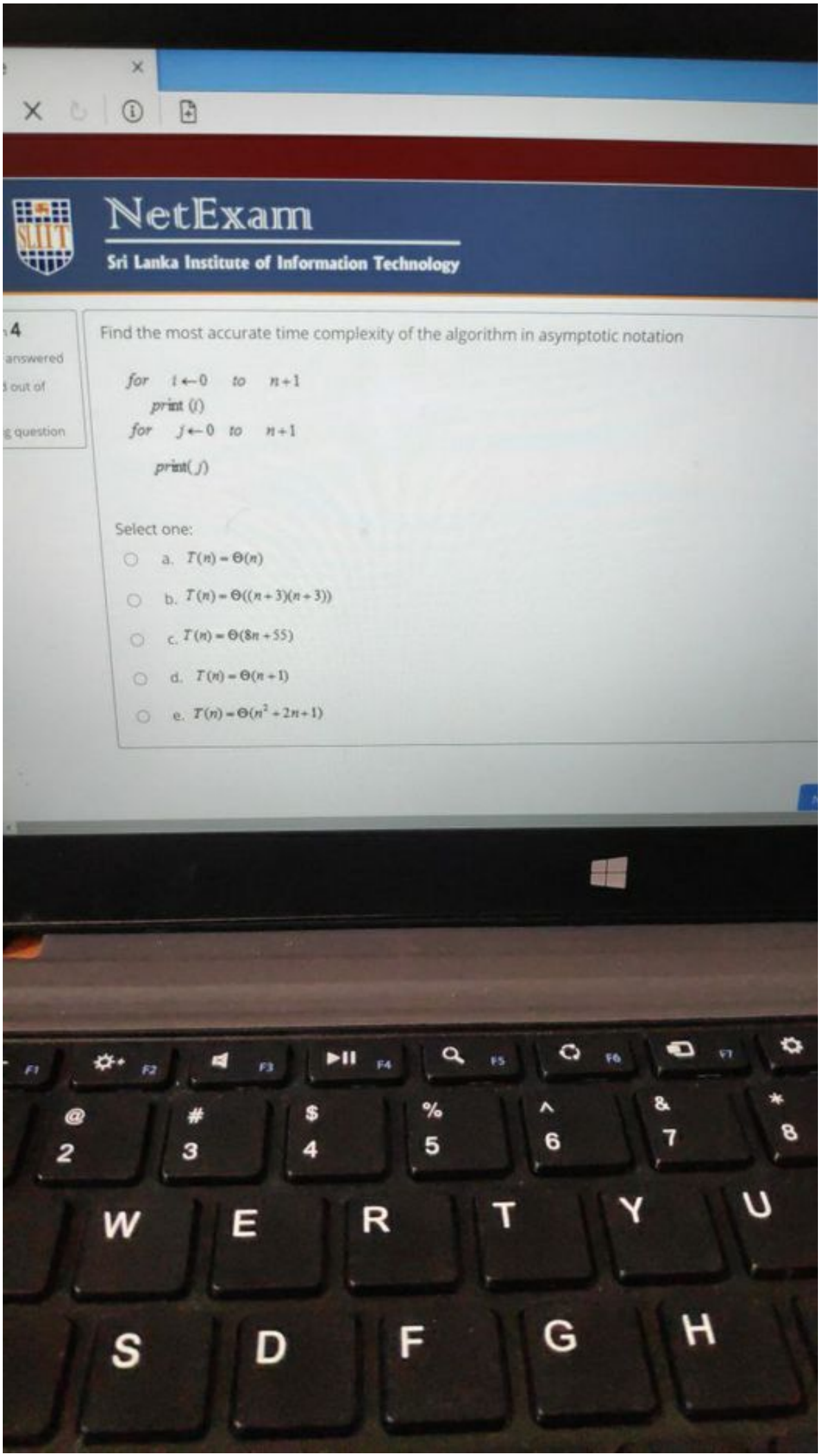
An algorithm, which is developed for finding the shortest path has the running time equation as, $T(n) = 5n + n\log n + 10$. Which is correct for its complexity?

Select one:

- a. $T(n) = O(n\log n)$ or $T(n) = \Omega(n)$
- b. $T(n) = O(n\log n)$ or $T(n) = \Omega(n\log n)$
- c. $T(n) = O(n)$ or $T(n) = \Omega(n)$
- d. $T(n) = O(n)$ or $T(n) = \Omega(n\log n)$
- e. None of the above

Next pag


Moodle
private String output;
public Test(String in) {
input = in;
}
public String doTest() {
int stackSize = input.length();
Stack theStack = new Stack(stackSize);
for (int i = 0; i < input.length(); i++) {
char ch = input.charAt(i);
theStack.push(ch);
}
output = "";
while (!theStack.isEmpty()) {
char ch = theStack.pop();
output = output + ch;
}
return output;
}
1. Briefly explain the purpose of the code segment in stack.
2. Why does it initialize the output variable as ""?
3. List the one application where this code can be used.



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4

answered

out of

question

Find the most accurate time complexity of the algorithm in asymptotic notation

```
for   i ← 0   to   n+1
    print (i)
for   j ← 0   to   n+1
    print( j)
```

Select one:

a. $T(n) = \Theta(n)$

b. $T(n) = \Theta((n+3)(n+3))$

c. $T(n) = \Theta(8n+55)$

d. $T(n) = \Theta(n+1)$

e. $T(n) = \Theta(n^2+2n+1)$

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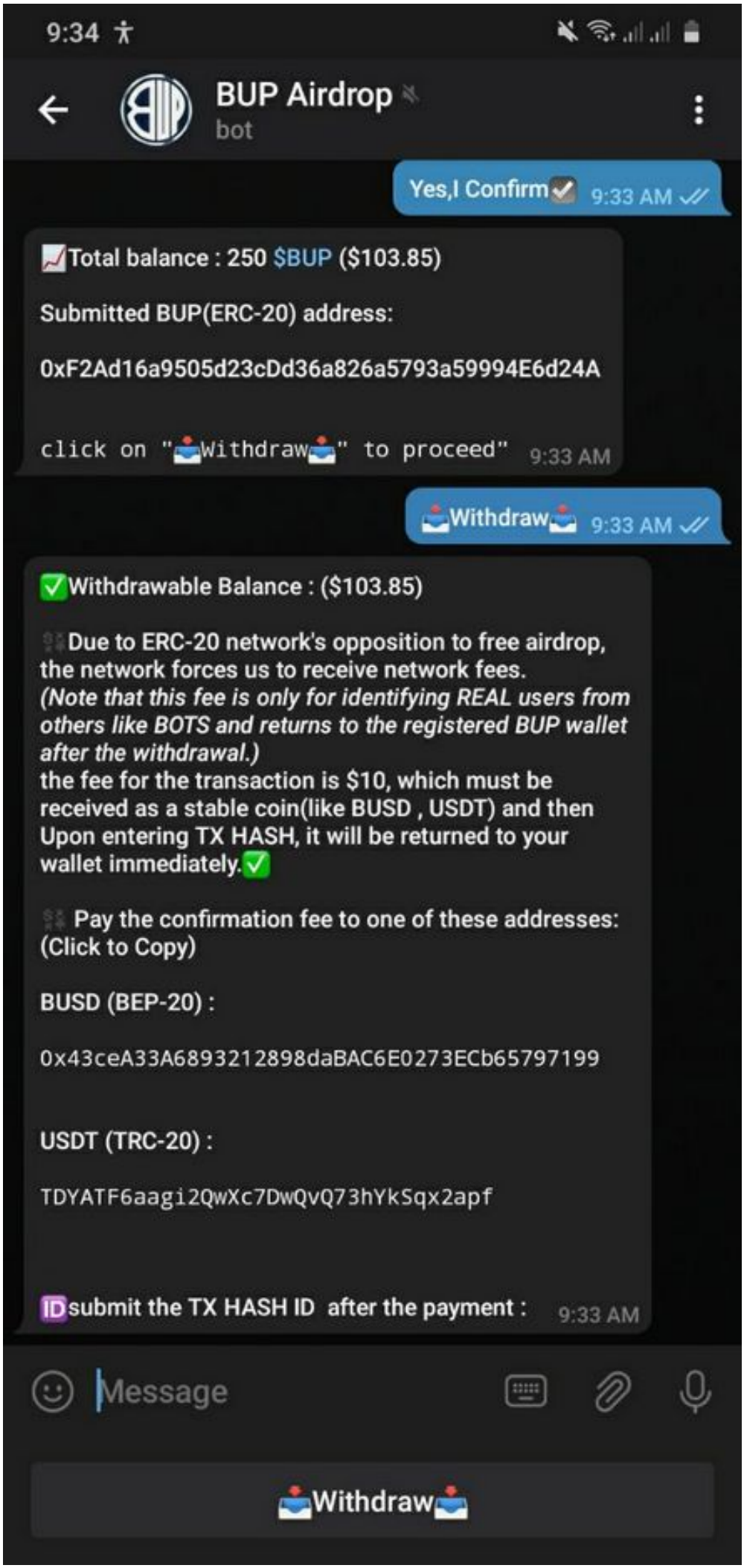
Consider the function f(n), which is defined below. n is a non-negative integer.

$$f(n) = \begin{cases} 5n & \text{if } n \text{ is even} \\ f(n-1) & \text{if } n \text{ is odd} \end{cases}$$

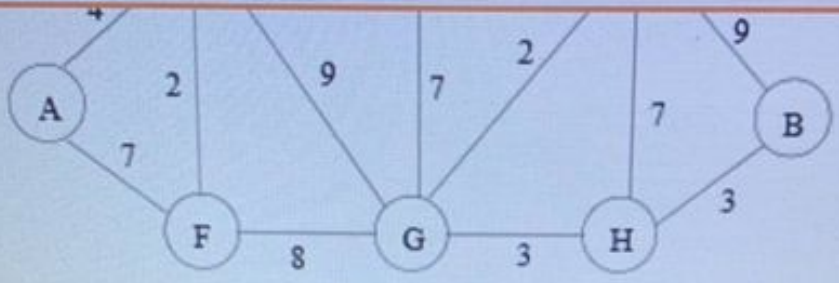
Use the above equation to manually compute f(11).

Select one:

- a. 1
- b. 50
- c. 55
- d. 5
- e. 11


9:34
BUP Airdrop
bot
Yes,I Confirm ✅ 9:33 AM
📈Total balance : 250 $BUP ($103.85)
Submitted BUP(ERC-20) address:
0xF2Ad16a9505d23cDd36a826a5793a59994E6d24A
click on "📥Withdraw📥" to proceed" 9:33 AM
📥Withdraw📥 9:33 AM
✅Withdrawable Balance : ($103.85)
Due to ERC-20 network's opposition to free airdrop, the network forces us to receive network fees.
(Note that this fee is only for identifying REAL users from others like BOTS and returns to the registered BUP wallet after the withdrawal.)
the fee for the transaction is $10, which must be received as a stable coin(like BUSD , USDT) and then Upon entering TX HASH, it will be returned to your wallet immediately.✅
Pay the confirmation fee to one of these addresses:
(Click to Copy)
BUSD (BEP-20) :
0x43ceA33A6893212898daBAC6E0273ECb65797199
USDT (TRC-20) :
TDYATF6aagi2QwXc7DwQvQ73hYkSqx2apf
ID submit the TX HASH ID after the payment : 9:33 AM
Message
📥Withdraw📥

Moodle

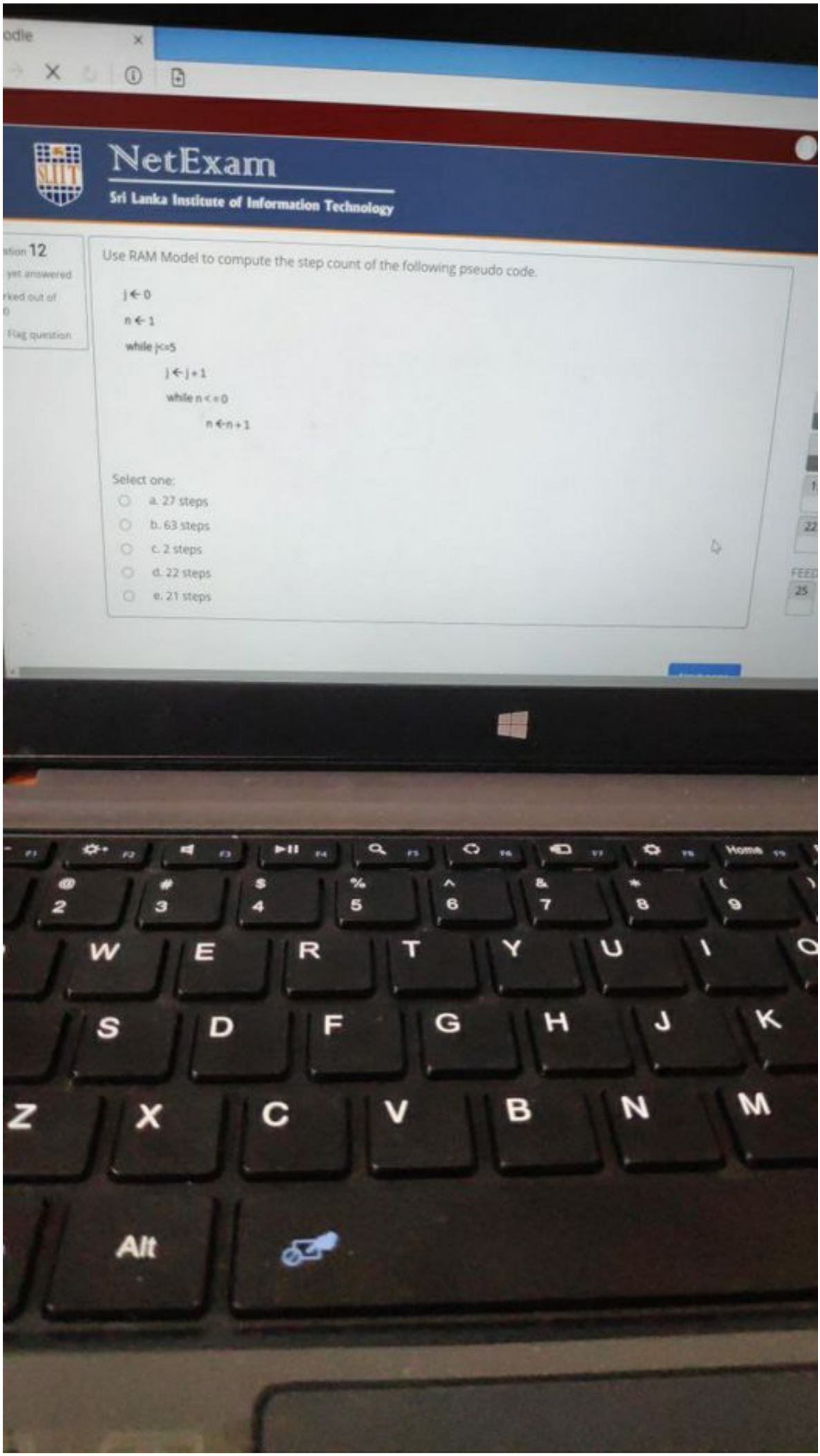


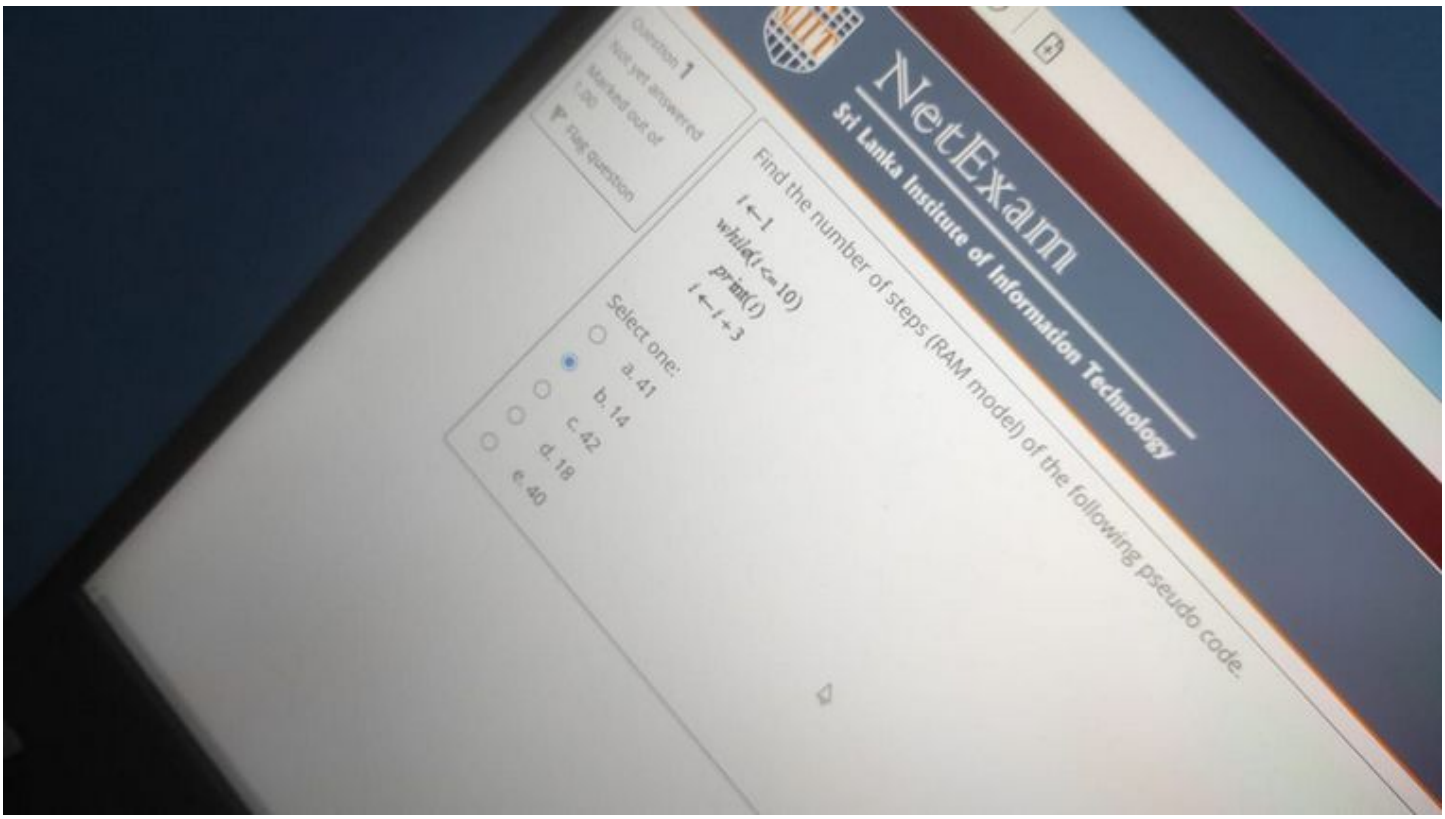
c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
j ← 1
a ← 1
for i ← 1 to 5 do
    j ← j +1
    while a ≤ 4
        a ← a +2
```

d.Design and algorithm to count the number of odd number when user entered 100 integers as inputs.

A)23
B)18
C)


NetExam
Sri Lanka Institute of Information Technology
Use RAM Model to compute the step count of the following pseudo code.
j ← 0
n ← 1
while j<=5
j ← j + 1
while n < = 0
n ← n + 1
Select one:
a. 27 steps
b. 63 steps
c. 2 steps
d. 22 steps
e. 21 steps


NetExam
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Question 1
Not yet answered
Marked out of 1.00
Flag question
Find the number of steps (RAM model) of the following pseudo code.
i ← 1
while(i <= 10)
print(i)
i ← i +3
Select one:
a. 41
b. 14
c. 42
d. 18
e. 40

1. This is **not** an analysis method.

(a) Step count method

(b) Operation count method

(c) RAM model

(d) Asymptotic notations

(e) Divide and conquer method

Select one:

- a. a
- b. b
- c. c
- d. d
- e. e

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Question 1

Not yet answered

Marked out of 1.00

Flag question

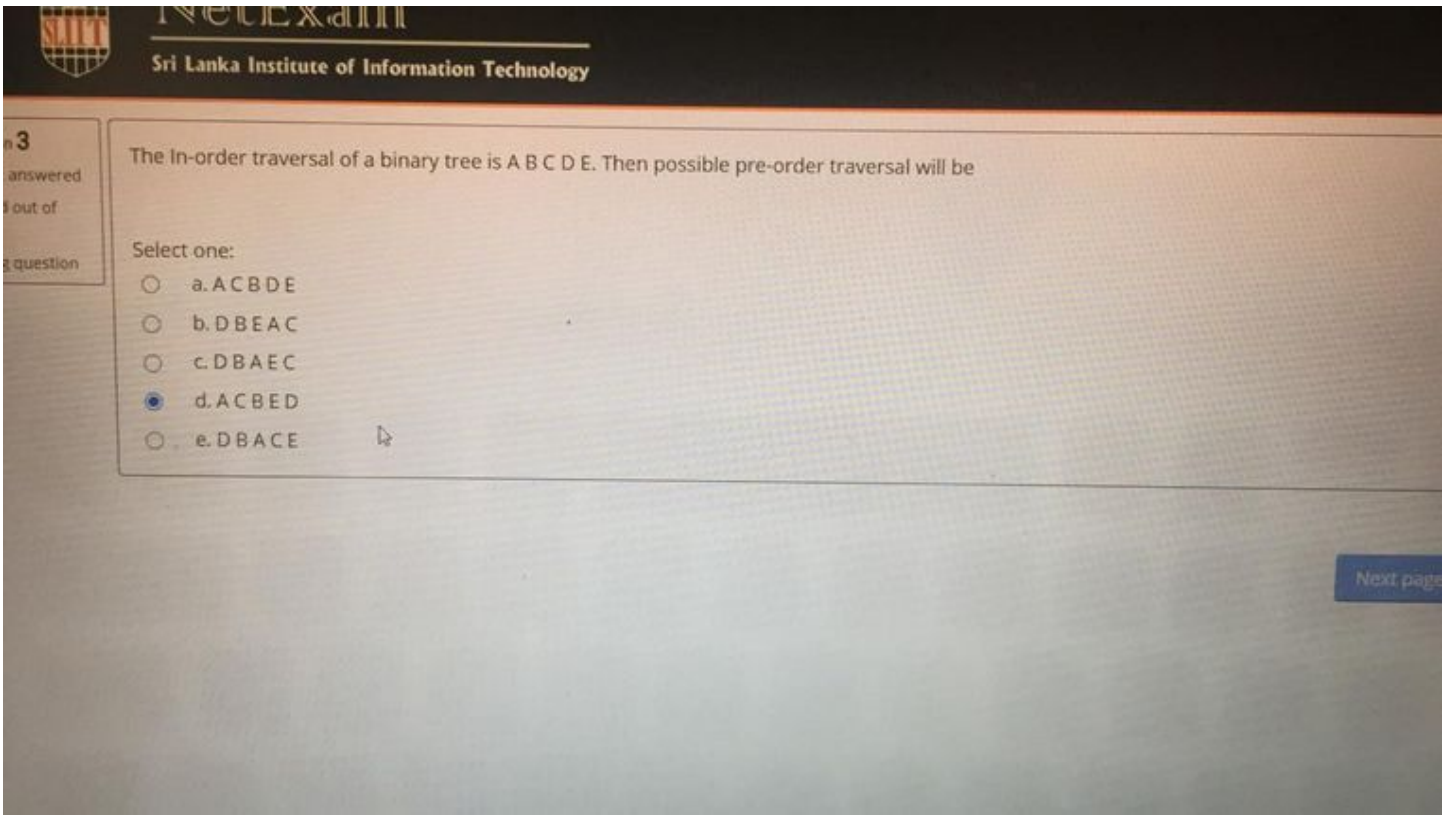
The equation below represents the Ackermann's function. Where i and j are integer

$$A(i,j) = \begin{cases} 2^j & i = 1 \text{ and } j \geq 1 \\ A(i-1,1) & i \geq 2 \text{ and } j = 1 \\ A(i-1, A(i, j-1)) & i, j \geq 2 \end{cases}$$

Use the above equations to manually compute A(5, 1).

Select one:

- a. A(5, 1) = 8
- b. A(5, 1) = 2
- c. A(5, 1) = 16
- d. A(5, 1) = 4
- e. A(5, 1) = 32


NetExam
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3
answered
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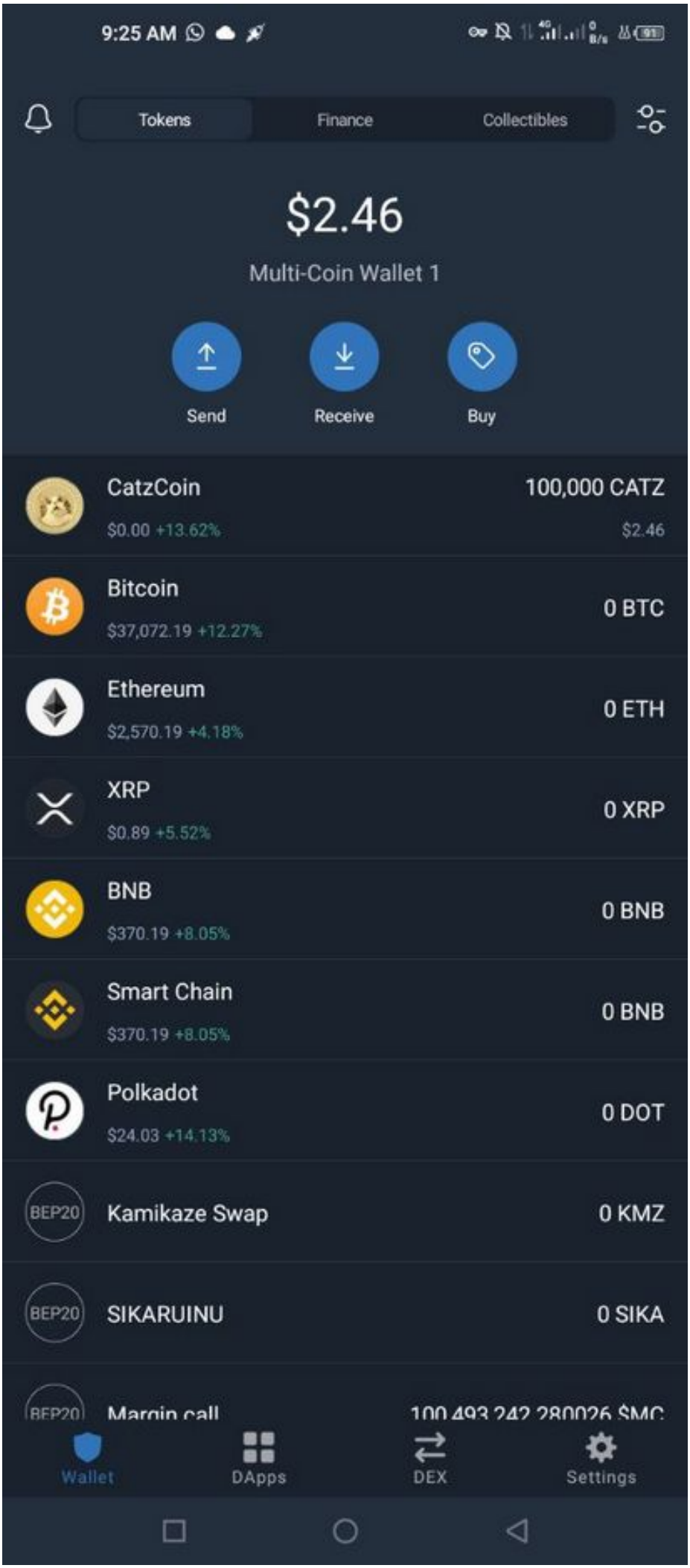
question
The In-order traversal of a binary tree is A B C D E. Then possible pre-order traversal will be
Select one:
a. A C B D E
b. D B E A C
c. D B A E C
d. A C B E D
e. D B A C E
Next page


9:25 AM
Tokens
Finance
Collectibles
$2.46
Multi-Coin Wallet 1
Send
Receive
Buy
CatzCoin
$0.00 +13.62%
100,000 CATZ
$2.46
Bitcoin
$37,072.19 +12.27%
0 BTC
Ethereum
$2,570.19 +4.18%
0 ETH
XRP
$0.89 +5.52%
0 XRP
BNB
$370.19 +8.05%
0 BNB
Smart Chain
$370.19 +8.05%
0 BNB
Polkadot
$24.03 +14.13%
0 DOT
BEP20
Kamikaze Swap
0 KMZ
BEP20
SIKARUINU
0 SIKA
BEP20
Margin call
Wallet
DApps
DEX
Settings

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What is the most suitable data structure that organizes the data similar to a line in a supermarket, where first one in the line is the first one out?

Select one:

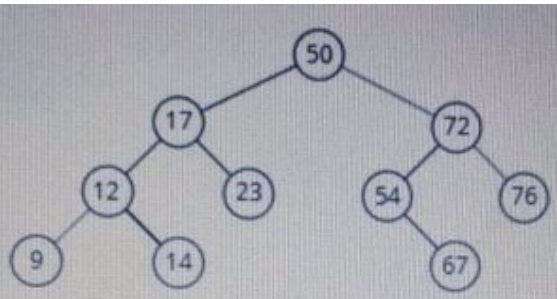
- a. Both Stack and Queue
- b. Queue
- c. Stack
- d. Linked List
- e. None of the above

Next page

Not yet answered

Marked out of 1.00

Flag question



Find the height of the above tree.

Select one:

a. 5

b. 6

c. 4

d. 3

e. 2

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11

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If the elements "a", "b", "c" and "d" are placed in a stack and removed one at a time, what is the order of removal?

Select one:

a. dabc

b. dcab

c. Order cannot be determined

d. dcba

e. abcd

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question

Find the most accurate time complexity of the algorithm in asymptotic notatio

```
a ← 1
while(a <= n + 5)
    i ← 0
    while(i <= n − 5)
        print(i)
        i ← i + 1
    a ← a + 1
```

Select one:

- a. $T(n) = \Theta(n+5)$
- b. $T(n) = \Theta((n+5)(n-5))$
- c. $T(n) = \Theta(n^2 - 25)$
- d. $T(n) = \Theta(45n + 243)$
- e. $T(n) = \Theta(n^2)$

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The Pre-order traversal of a binary tree is a b c d e then possible Post-order traversal will be

Select one:

- a. c b d a e
- b. c d b e a
- c. c d b a e
- d. c b d e a
- e. a b c e d

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yet answered

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Flag question

Find the number of steps (RAM model) of the following pseudo code.

```
a ← 1
b ← 1
while(a <= n)
    print(a)
    a ← a+1
    while(b <= 5)
        print(b)
        b ← b+1
```

Select one:

- a. None of the above
- b. 5n + 22
- c. 25n + 3
- d. 25n + 2
- e. 5n+ 23

Moodle

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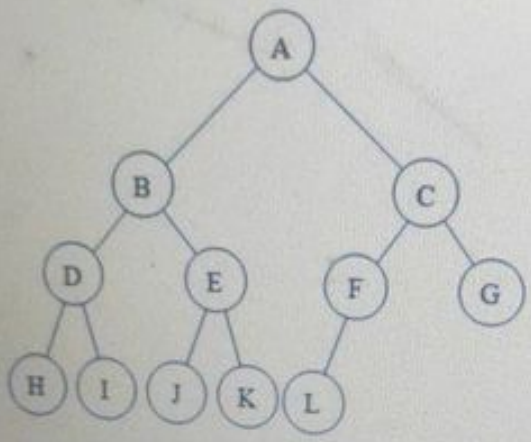
Question 8

Not yet answered

Marked out of 1.00

Flag question



Find the height of the tree.

Select one:

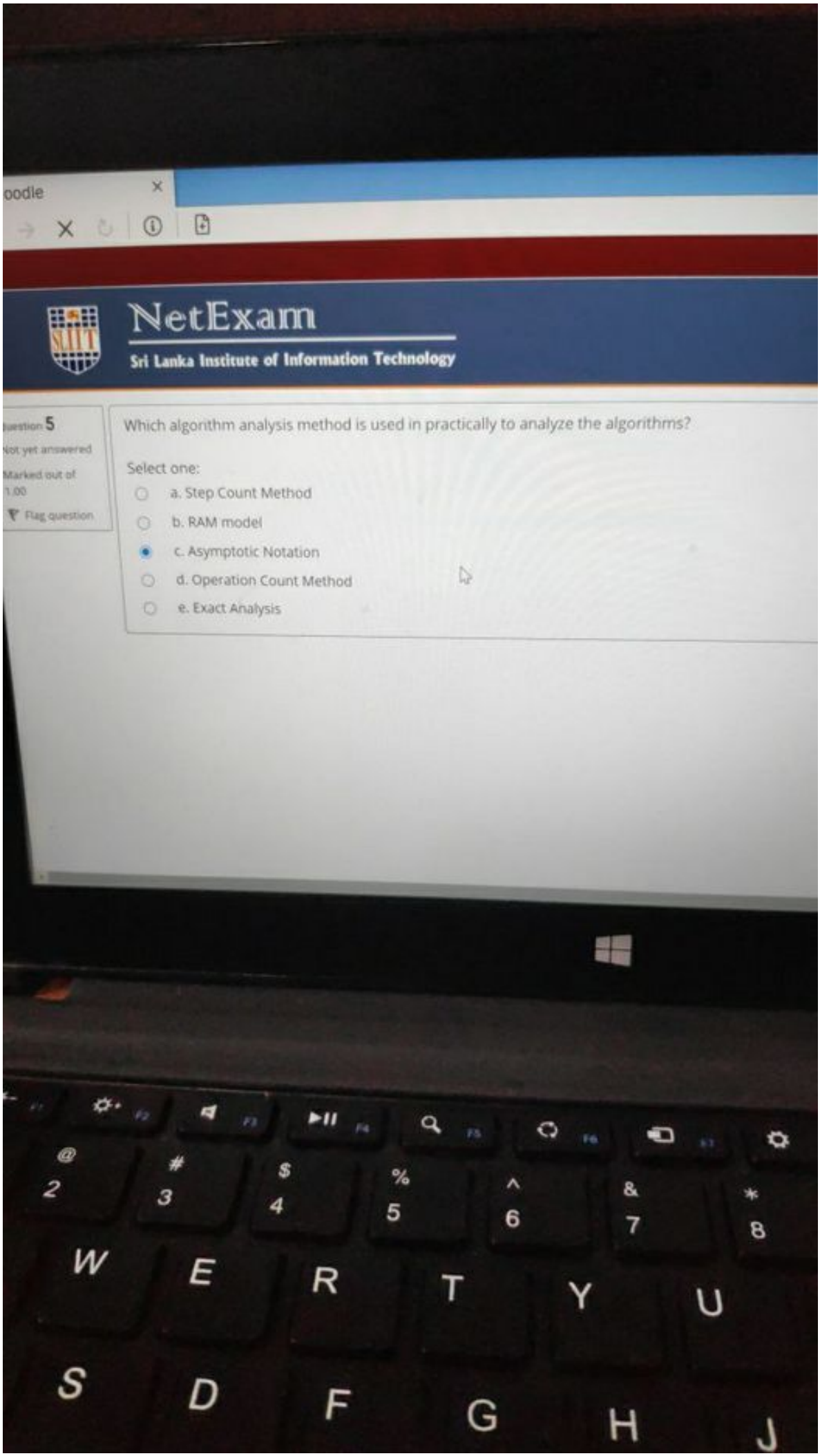
a. 1

b. 4

c. 2

d. 3

e. 5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NetExam
Sri Lanka Institute of Information Technology
uestion 5
Not yet answered
Marked out of 1.00
Flag question
Which algorithm analysis method is used in practically to analyze the algorithms?
Select one:
a. Step Count Method
b. RAM model
c. Asymptotic Notation
d. Operation Count Method
e. Exact Analysis

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Question 13

Not yet answered

Marked out of 1.00

Flag question

Which of the following Big O notation represents the fastest algorithm?

Select one:

- a. O (log n)
- b. O (n log n)
- c. O (n^2)
- d. O (n^3)
- e. O (n)

Question 1

Not yet answered

Marked out of 1.00

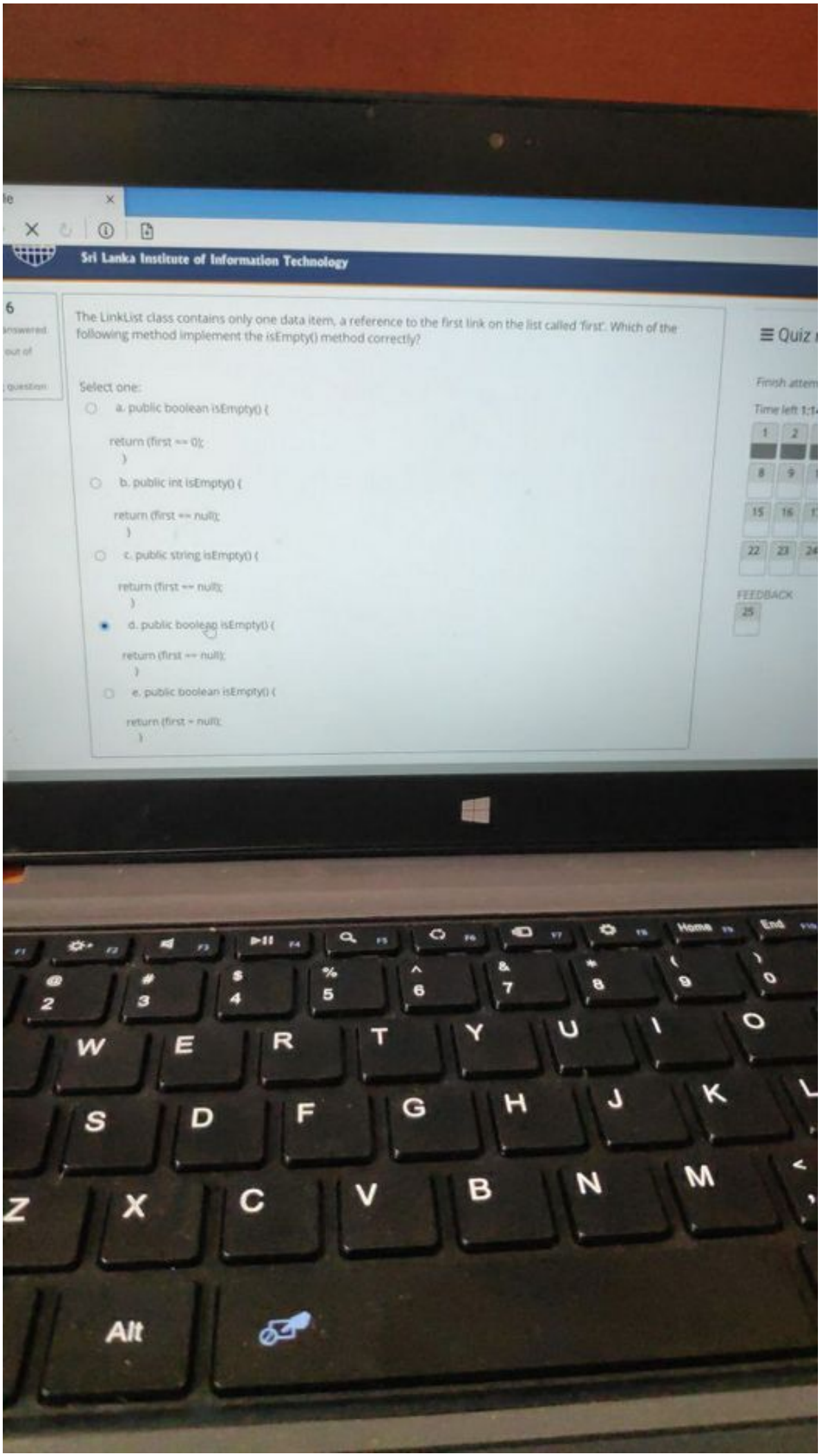
Flag question

Find the most accurate time complexity of the algorithm in asymptotic notation

```
for   i←0   to   n+1
    print (i)
for   j←0   to   n+1
    print(j)
```

Select one:

- a. $T(n) = \Theta(n+1)$
- b. $T(n) = \Theta(n)$
- c. $T(n) = \Theta(n^2+2n+1)$
- d. $T(n) = \Theta((n+3)(n+3))$
- e. $T(n) = \Theta(8n+55)$


Sri Lanka Institute of Information Technology
The LinkList class contains only one data item, a reference to the first link on the list called 'first'. Which of the following method implement the isEmpty() method correctly?
Select one:
a. public boolean isEmpty() {
return (first == 0);
}
b. public int isEmpty() {
return (first == null);
}
c. public string isEmpty() {
return (first == null);
}
d. public boolean isEmpty() {
return (first == null);
}
e. public boolean isEmpty() {
return (first = null);
}
Quiz
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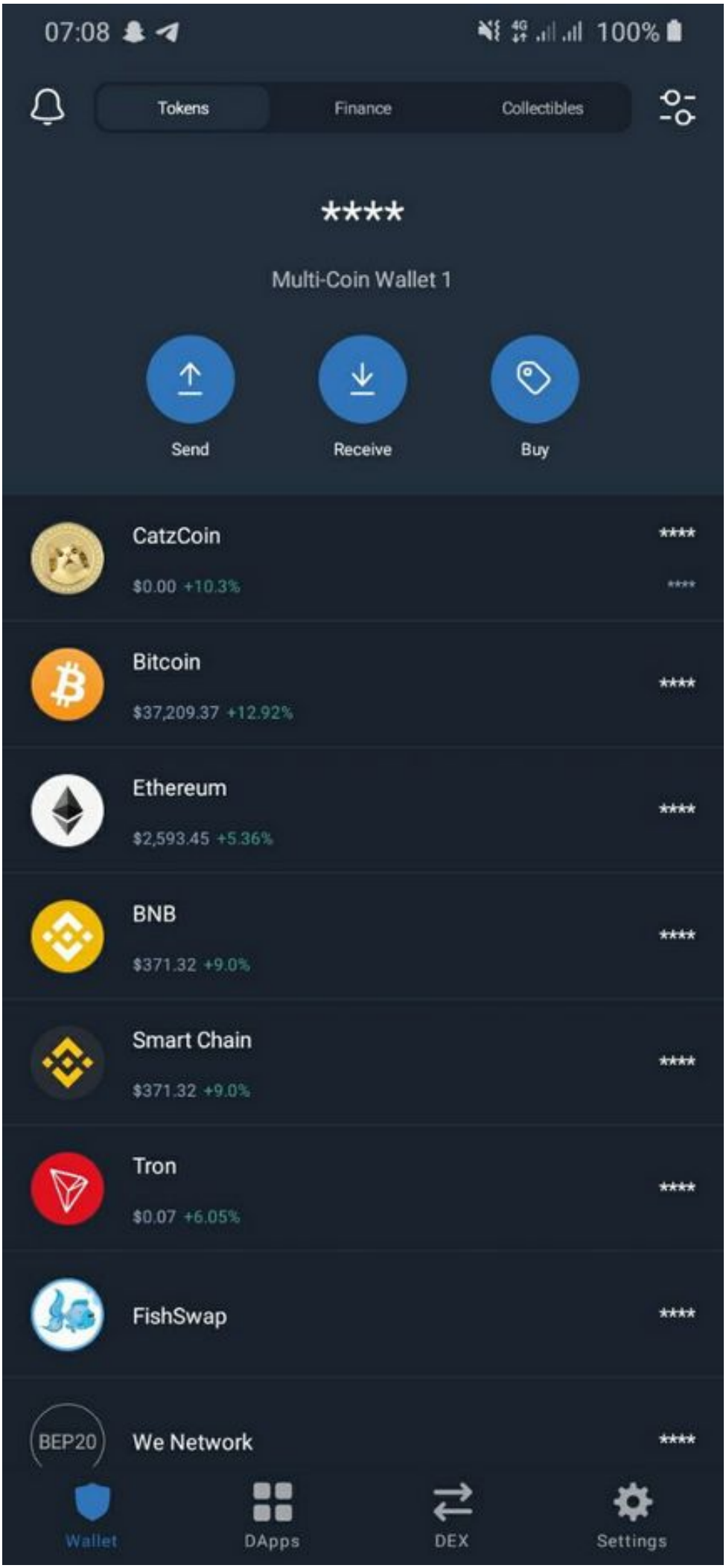
07:08
100%
Tokens
Finance
Collectibles
****
Multi-Coin Wallet 1
Send
Receive
Buy
CatzCoin
$0.00 +10.3%
****
Bitcoin
$37,209.37 +12.92%
****
Ethereum
$2,593.45 +5.36%
****
BNB
$371.32 +9.0%
****
Smart Chain
$371.32 +9.0%
****
Tron
$0.07 +6.05%
****
FishSwap
****
BEP20
We Network
****
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Moodle

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Question 14
Not yet answered
Marked out of 10.00
Flag question

a)If modulo value is q = 300, how many spurious hits and valid hits do the **Rabin -Karp matcher** encounter in the text T =300300300300 when looking for pattern P = 600?

b)Consider the following incomplete state transition diagram for a string-matching automaton for the pattern P = **bbba** and take the input alphabet as {a,b}. The following incomplete table represents the input versus states for the state transition diagram. Find the missing states for the p, q, r, s, t, u, v and w to accept the given pattern.

State	inputs	
	a	b
0	0	1
1	p	q
2	r	s
3	t	u
4	v	w

c)If patter P = AAB, how many character comparison would occur using Naive String Matching Algorithm for text T =AAAAAAAB?

Quiz navigation

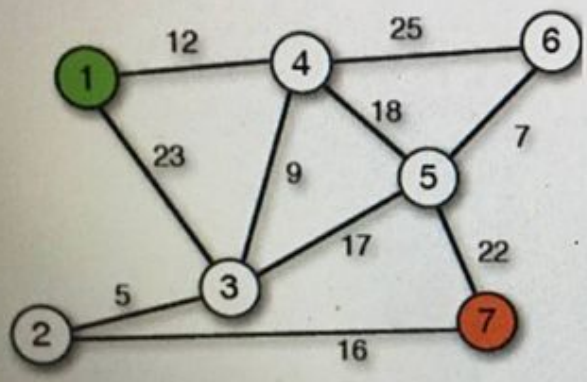
Finish attempt ...

Time left 1:00:33

FEEDBACK

a. Find the minimum cost for the spanning tree of the graph using Kuskal's or Prim's algorithm. Illustr not required to get the answer.

b. Find the shortest distance from vertex 1 to vertex 7 using the Dijkstra's algorithm.. Illustration is no required to get the answer.



c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
j ← 1
a ← 1
for i ← 1 to 6 do
    j ← j +1
    while a ≤ 5
        a ← a +2
```

v - 1

w - 2

c)

number of comparisons = m(n-m+1)

= 3(8 - 3 + 1) = 18

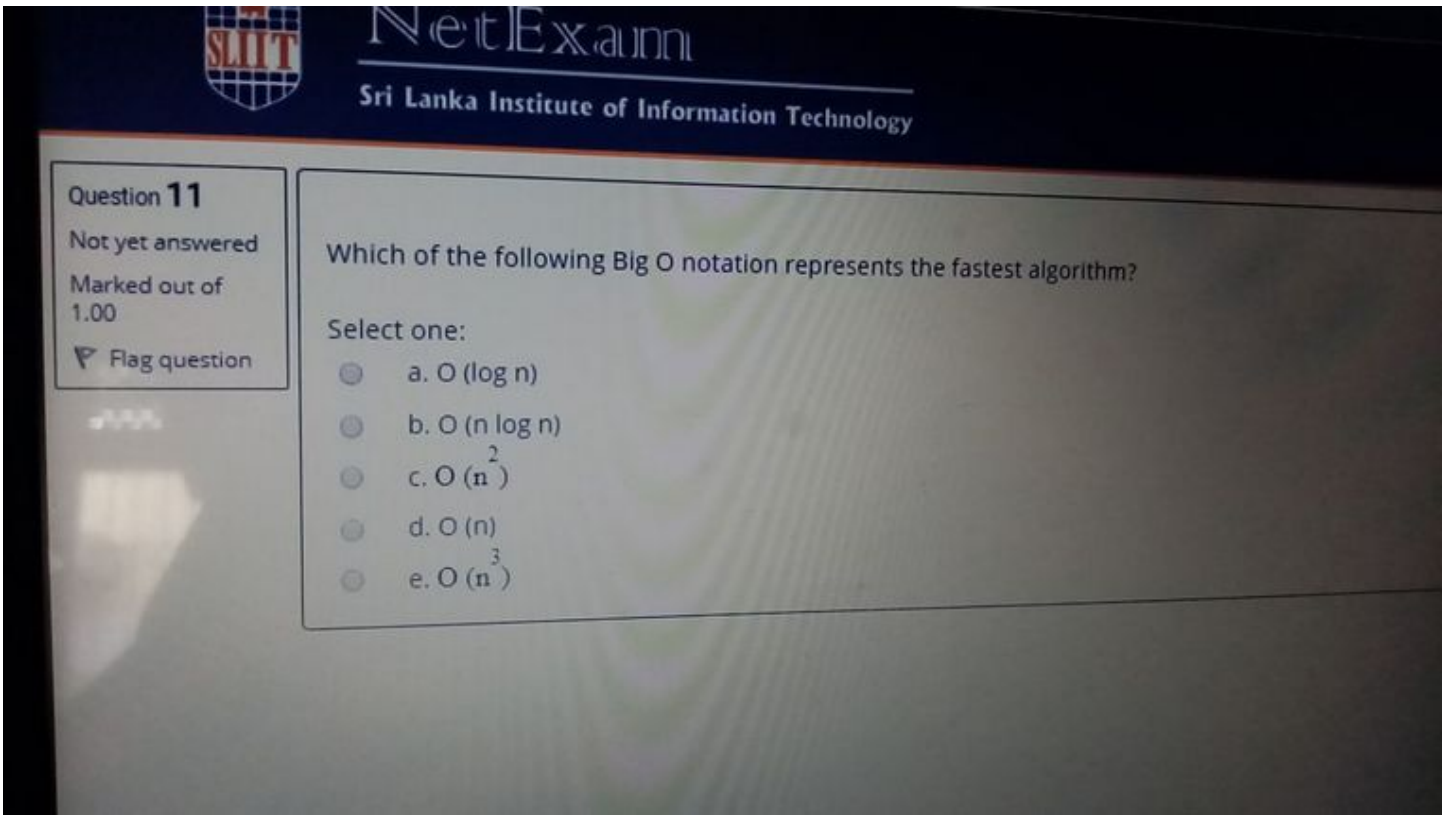
Sri Lanka Institute of Information Technology

Find the most accurate time complexity of the algorithm in asymptotic notation

```
for   i←0   to   n+1
    print (i)
for   j←0   to   n+1
    print( j)
```

Select one:

- a. $T(n) = \Theta(n)$
- b. $T(n) = \Theta(n^2 + 2n + 1)$
- c. $T(n) = \Theta(8n + 55)$
- d. $T(n) = \Theta(n + 1)$
- e. $T(n) = \Theta((n + 3)(n - 3))$


NetExam
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Question 11
Not yet answered
Marked out of 1.00
Flag question
Which of the following Big O notation represents the fastest algorithm?
Select one:
a. O (log n)
b. O (n log n)
c. O (n^2)
d. O (n)
e. O (n^3)

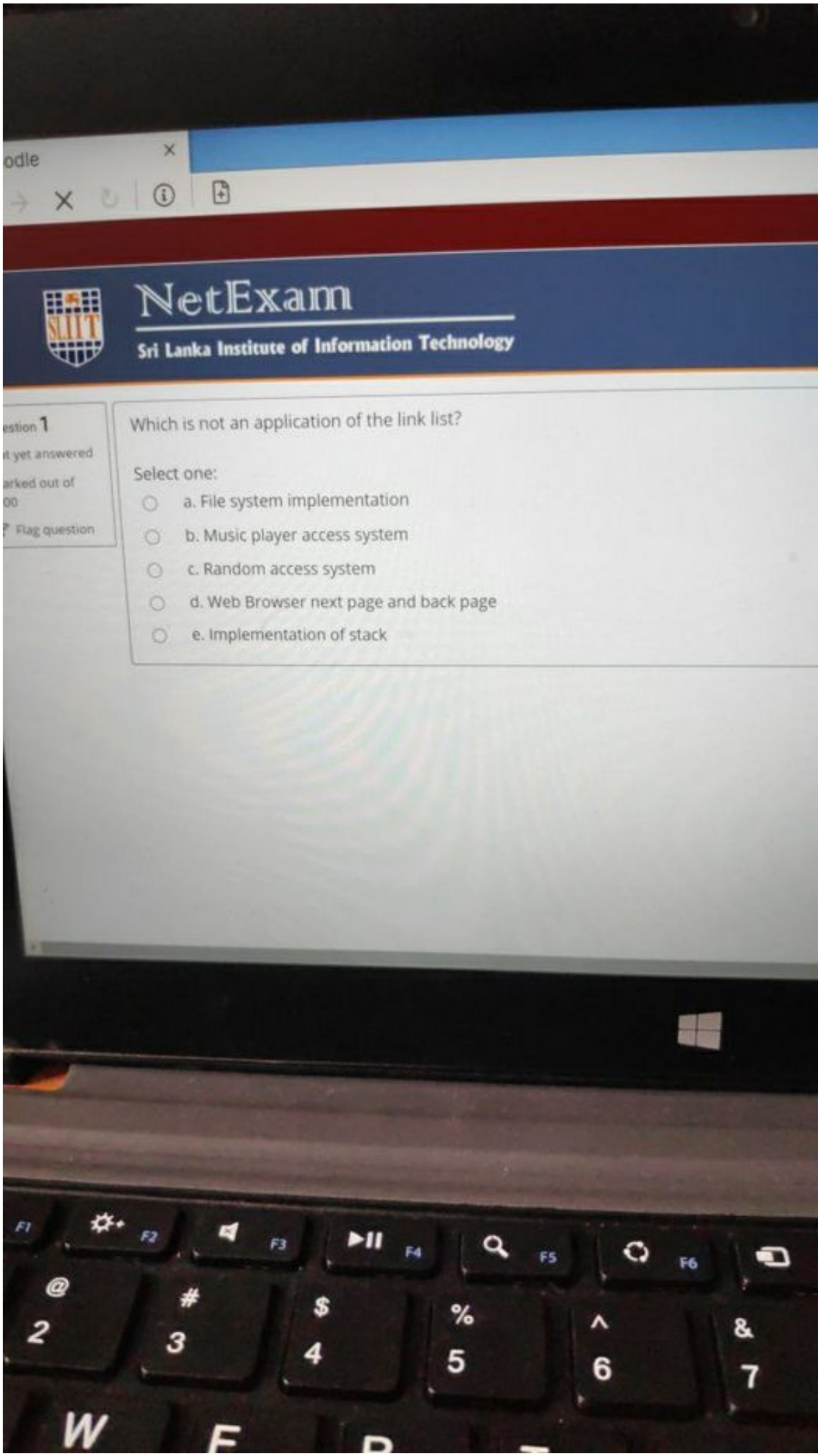
Find the minimum cost for the spanning tree of the graph using Kuskal's or Prim's algorithm. Illustration is not required to get the answer.

b. Find the shortest distance from vertex 1 to vertex 7 using the Dijkstra's algorithm.. Illustration is not required to get the answer.

c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
j ← 1
a ← 1
for i ← 1 to 6 do
    j ← j +1
    while a ≤ 5
        a ← a +2
```

d.Design and algorithm to count the number of even number when user entered 100 integers as inputs.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NetExam
Sri Lanka Institute of Information Technology
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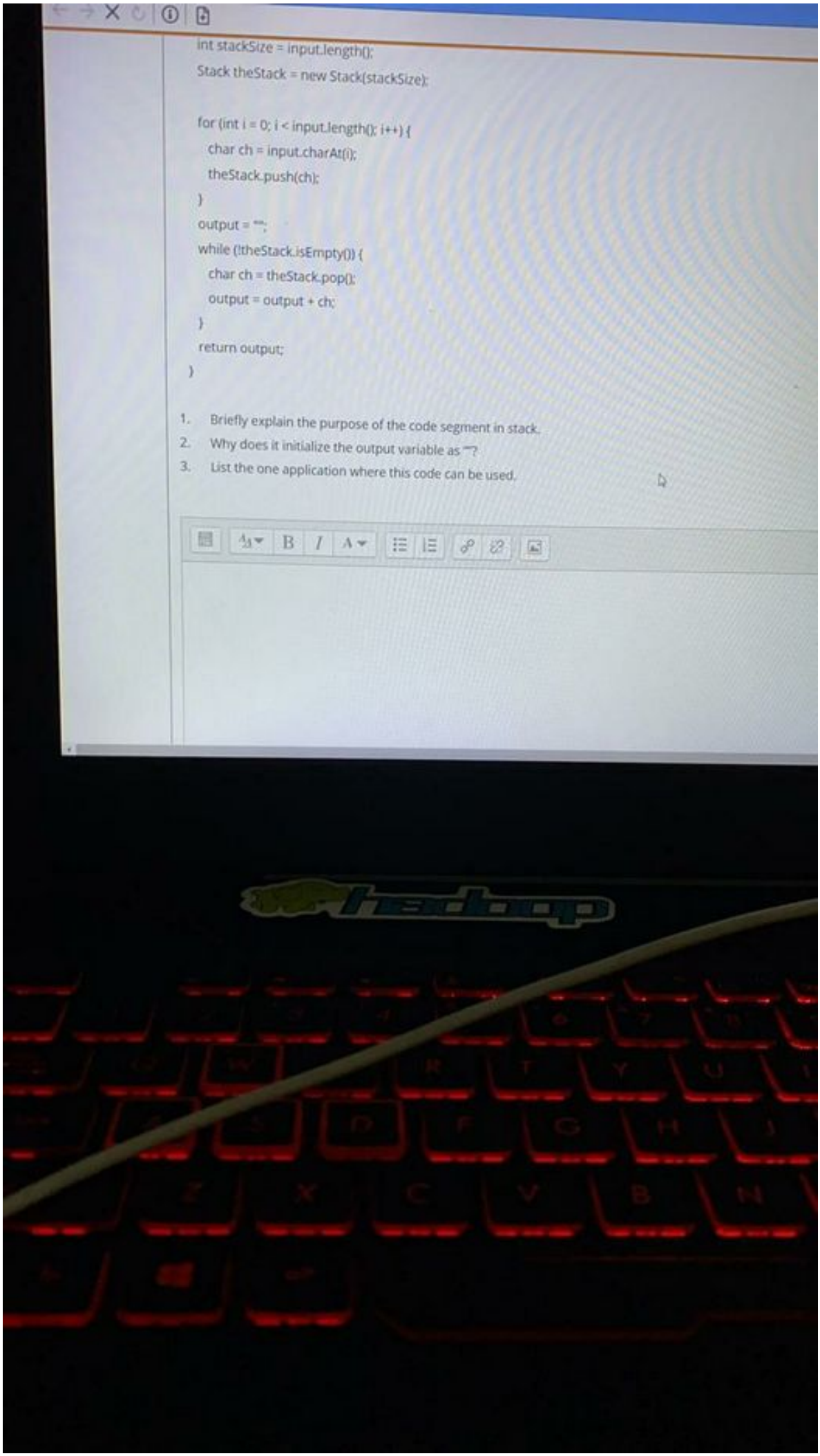
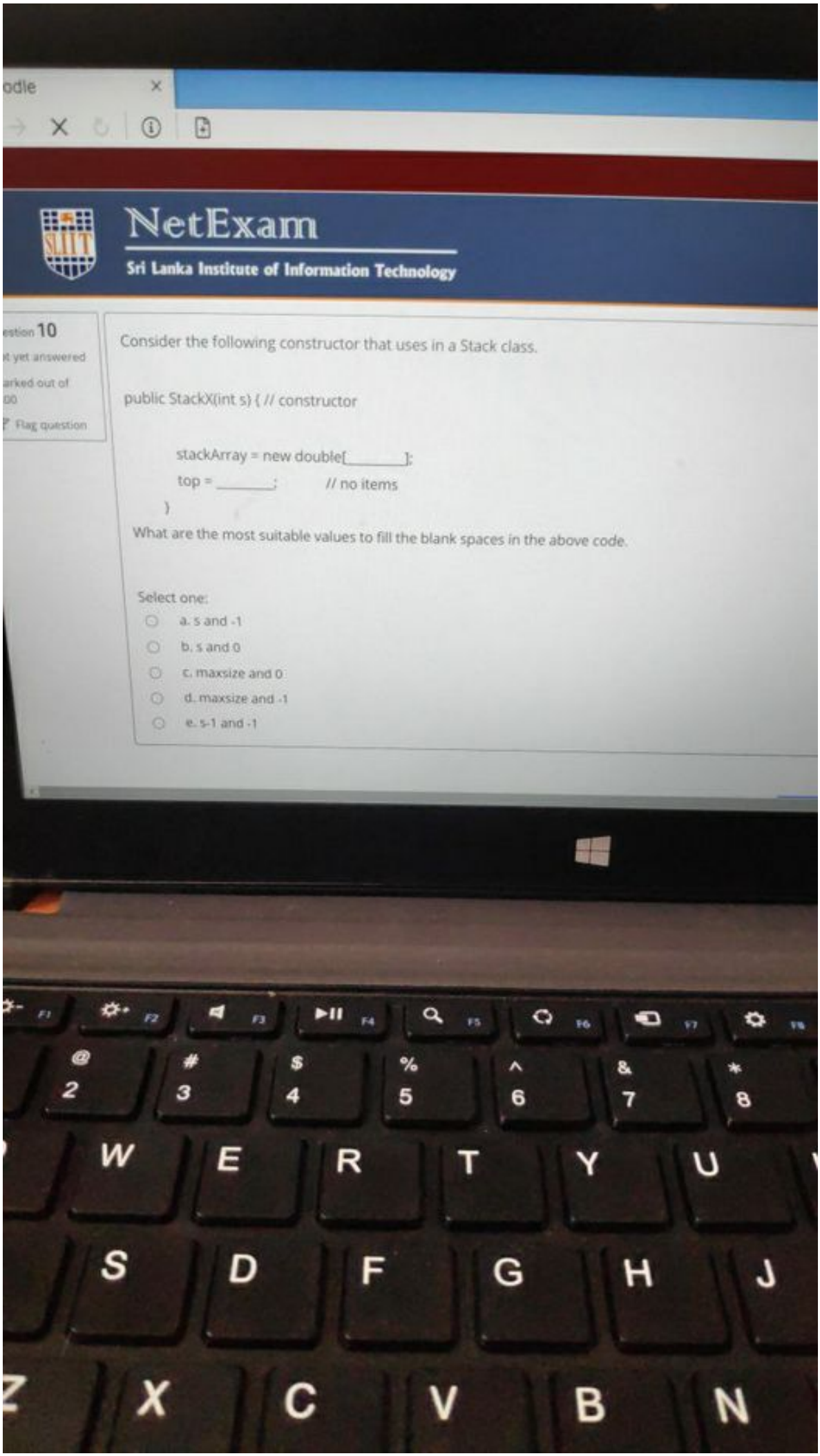
00
Flag question
Which is not an application of the link list?
Select one:
a. File system implementation
b. Music player access system
c. Random access system
d. Web Browser next page and back page
e. Implementation of stack



```
int stackSize = input.length();
Stack theStack = new Stack(stackSize);

for (int i = 0; i < input.length(); i++) {
  char ch = input.charAt(i);
  theStack.push(ch);
}
output = "";
while (!theStack.isEmpty()) {
  char ch = theStack.pop();
  output = output + ch;
}
return output;
}
```

1. Briefly explain the purpose of the code segment in stack.
2. Why does it initialize the output variable as ""?
3. List the one application where this code can be used.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NetExam
Sri Lanka Institute of Information Technology
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00
Flag question
Consider the following constructor that uses in a Stack class.
public StackX(int s) { // constructor
stackArray = new double[_____];
top = _____; // no items
}
What are the most suitable values to fill the blank spaces in the above code.
Select one:
a. s and -1
b. s and 0
c. maxsize and 0
d. maxsize and -1
e. s-1 and -1

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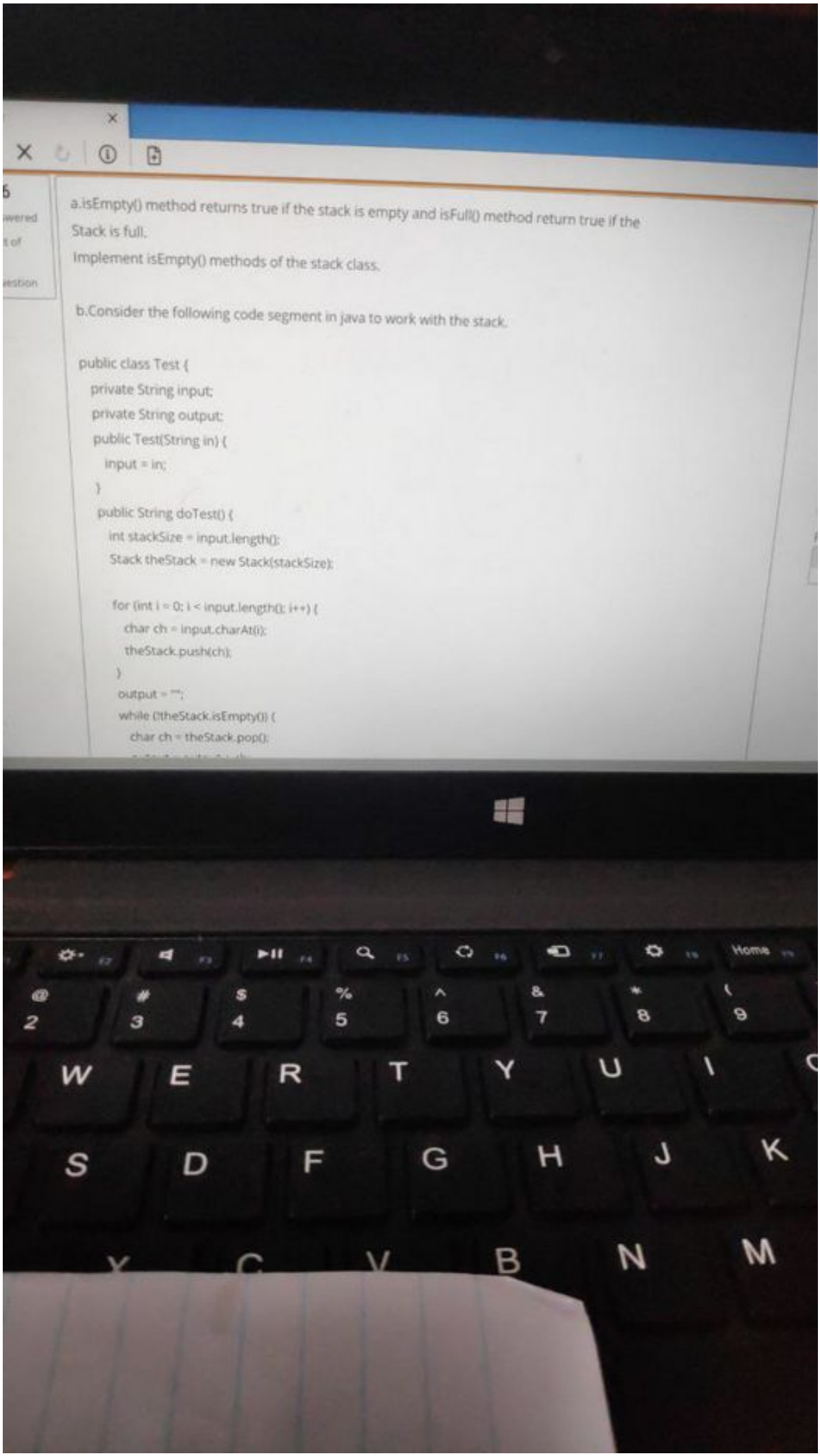
estion

The Post-order traversal of a binary tree is P Q R S T. Then possible Pre-order traversal will be

Select one:

- a. T R Q S P
- b. T R P S Q
- c. T R Q P S
- d. P Q R T S
- e. T R P Q S



a.isEmpty() method returns true if the stack is empty and isFull() method return true if the Stack is full.

Implement isEmpty() methods of the stack class.

b.Consider the following code segment in java to work with the stack.

```
public class Test {
  private String input;
  private String output;
  public Test(String in) {
    input = in;
  }
  public String doTest() {
    int stackSize = input.length();
    Stack theStack = new Stack(stackSize);

    for (int i = 0; i < input.length(); i++) {
      char ch = input.charAt(i);
      theStack.push(ch);
    }
    output = "";
    while (!theStack.isEmpty()) {
      char ch = theStack.pop();
```

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Consider the following java statement.

stackArray = new double[5];

What will be the **top** when the above stack is full?

Select one:

- a. 0
- b. None of the above
- c. 5
- d. 4
- e. 6

Question 7

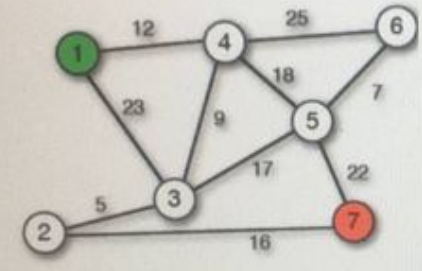
Not yet answered

Marked out of 10.00

Flag question

a. Find the minimum cost for the spanning tree of the graph using Kuskal's or Prim's algorithm. Illustration is not required to get the answer.

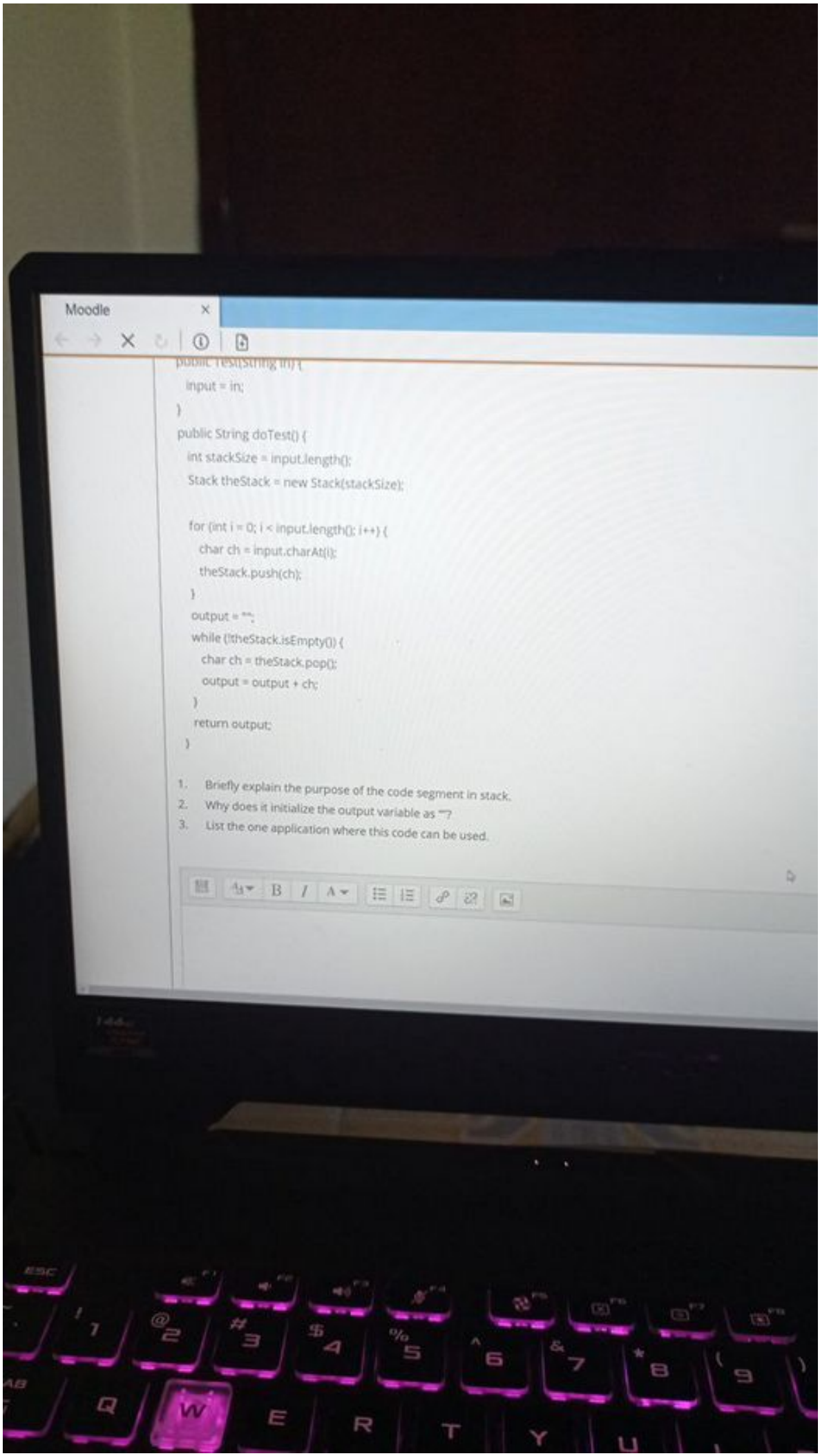
b. Find the shortest distance from vertex 1 to vertex 7 using the Dijkstra's algorithm.. Illustration is not required to get the answer.



c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
j ← 1
a ← 1
for i ← 1 to 6 do
    j ← j +1
    while a ≤ 5
        a ← a +2
```

d.Design and algorithm to count the number of even number when user entered 100 integers as inputs.


Moodle
public Test(String in) {
input = in;
}
public String doTest() {
int stackSize = input.length();
Stack theStack = new Stack(stackSize);
for (int i = 0; i < input.length(); i++) {
char ch = input.charAt(i);
theStack.push(ch);
}
output = "";
while (!theStack.isEmpty()) {
char ch = theStack.pop();
output = output + ch;
}
return output;
}
1. Briefly explain the purpose of the code segment in stack.
2. Why does it initialize the output variable as ""?
3. List the one application where this code can be used.

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Question 15

Not yet answered

Marked out of 1.00

Flag question

An algorithm, which is developed for finding the shortest path nlogn + 10. Which is correct for its complexity?

Select one:

- a. None of the above
- b. T(n) = O(nlogn) or T(n) = Ω(n)
- c. T(n) = O(n) or T(n) = Ω(nlogn)
- d. T(n) = O(n) or T(n) = Ω(n)
- e. T(n) = O(nlogn) or T(n) = Ω(nlogn)

Implement isEmpty() methods of the stack class.

b.Consider the following code segment in java to work with the stack.

```
public class Test {
  private String input;
  private String output;
  public Test(String in) {
    input = in;
  }
  public String doTest() {
    int stackSize = input.length();
    Stack theStack = new Stack(stackSize);

    for (int i = 0; i < input.length(); i++) {
      char ch = input.charAt(i);
      theStack.push(ch);
    }
    output = "";
    while (!theStack.isEmpty()) {
      char ch = theStack.pop();
      output = output + ch;
    }
    return output;
  }
```

1. Briefly explain the purpose of the code segment in stack.
2. Why does it initialize the output variable as ""?
3. List the one application where this code can be used.

Moodle

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ion 2

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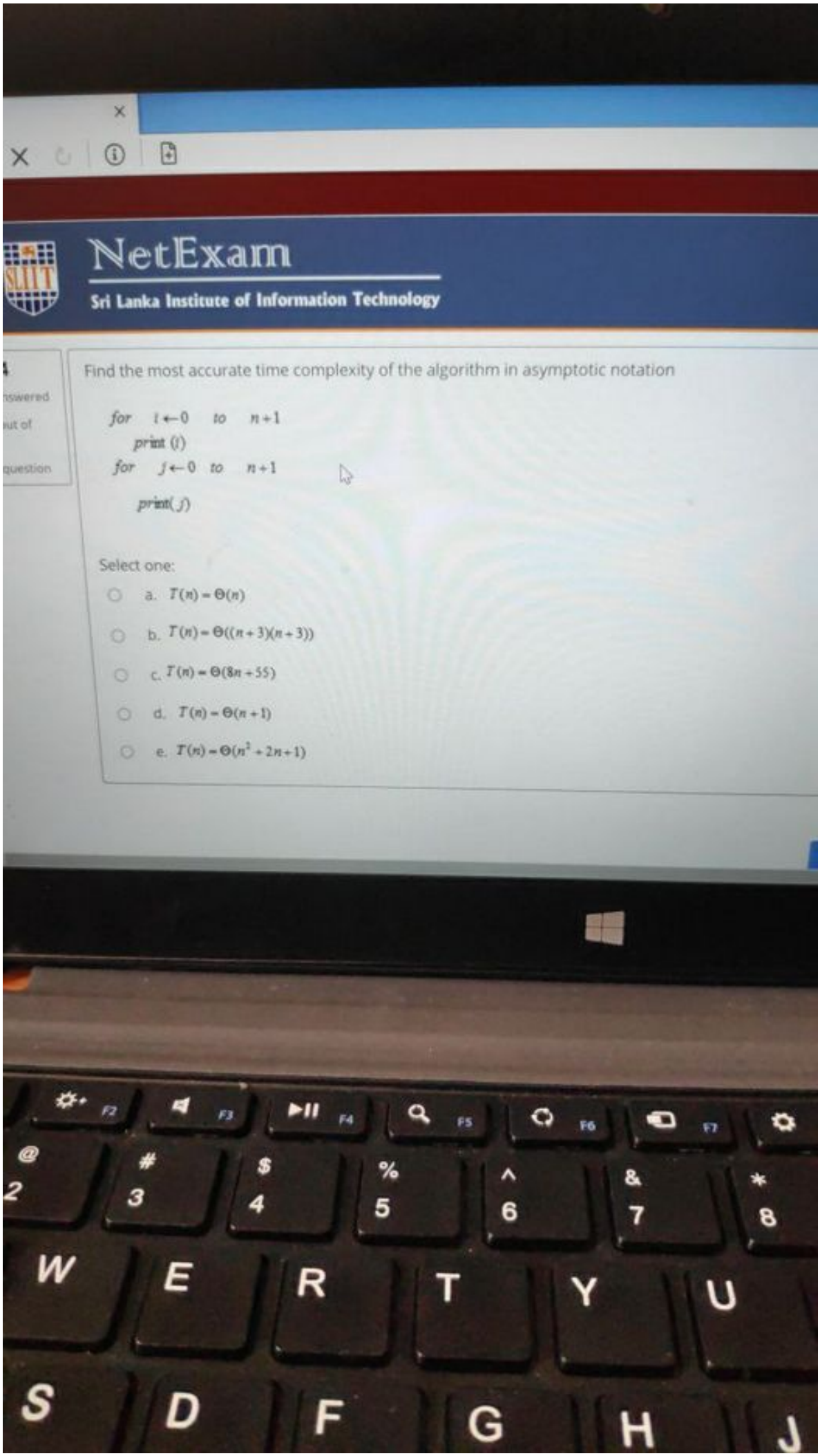
lag question

Select the correct initial values for rear, front and nItems of a linear queue of size **s**.

Select one:

- a. -1, 0, s
- b. -1, 0, 0
- c. -1, -1, 0
- d. 0, -1, 0
- e. 0, 0, 0


NetExam
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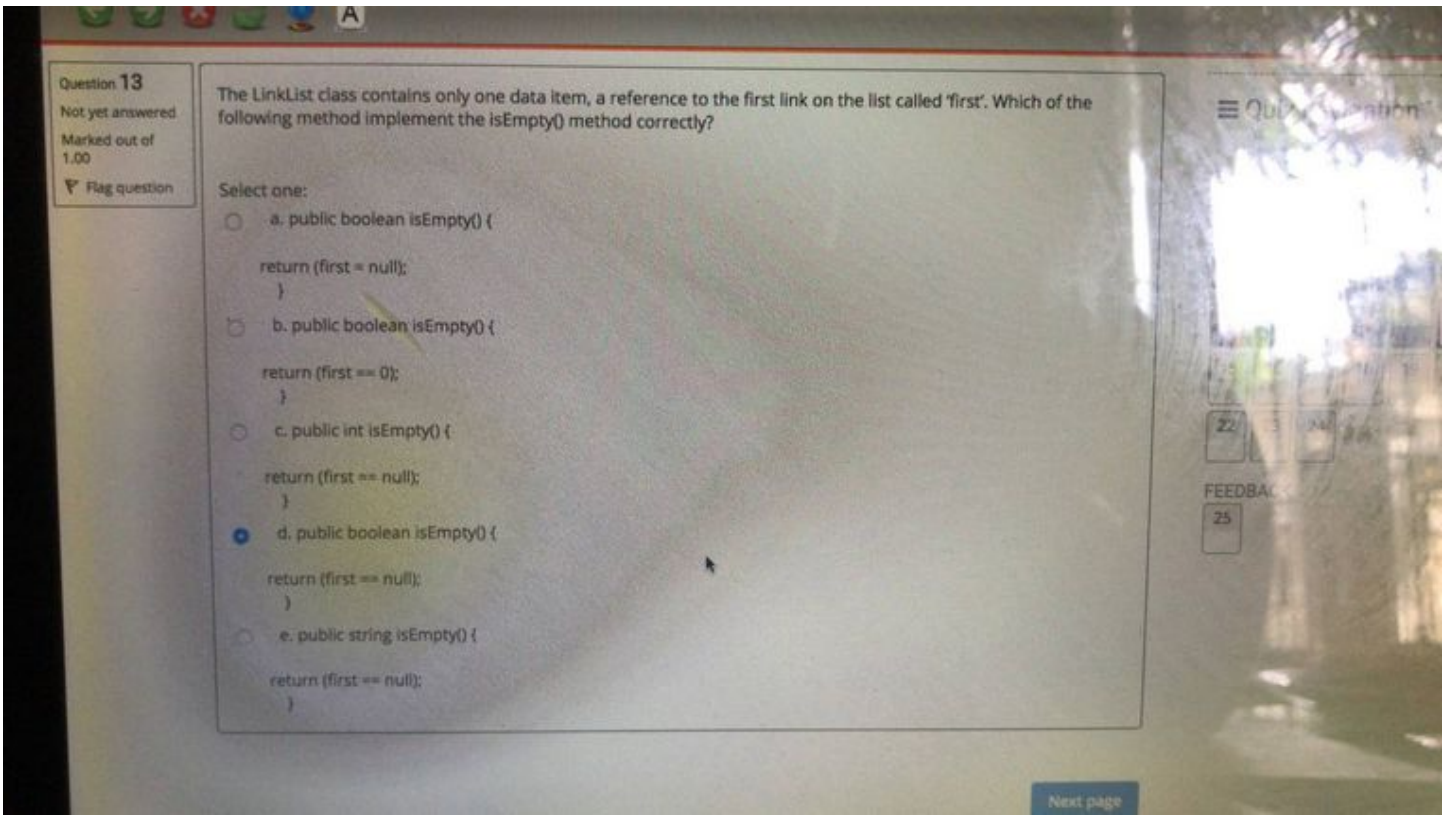
Find the most accurate time complexity of the algorithm in asymptotic notation
for i←0 to n+1
print (i)
for j←0 to n+1
print(j)
Select one:
a. T(n) = Θ(n)
b. T(n) = Θ((n+3)(n+3))
c. T(n) = Θ(8n+55)
d. T(n) = Θ(n+1)
e. T(n) = Θ(n² + 2n+1)



Question 13
Not yet answered
Marked out of 1.00
Flag question

The LinkList class contains only one data item, a reference to the first link on the list called 'first'. Which of the following method implement the isEmpty() method correctly?

Select one:

a. public boolean isEmpty() {
return (first = null);
}

b. public boolean isEmpty() {
return (first == 0);
}

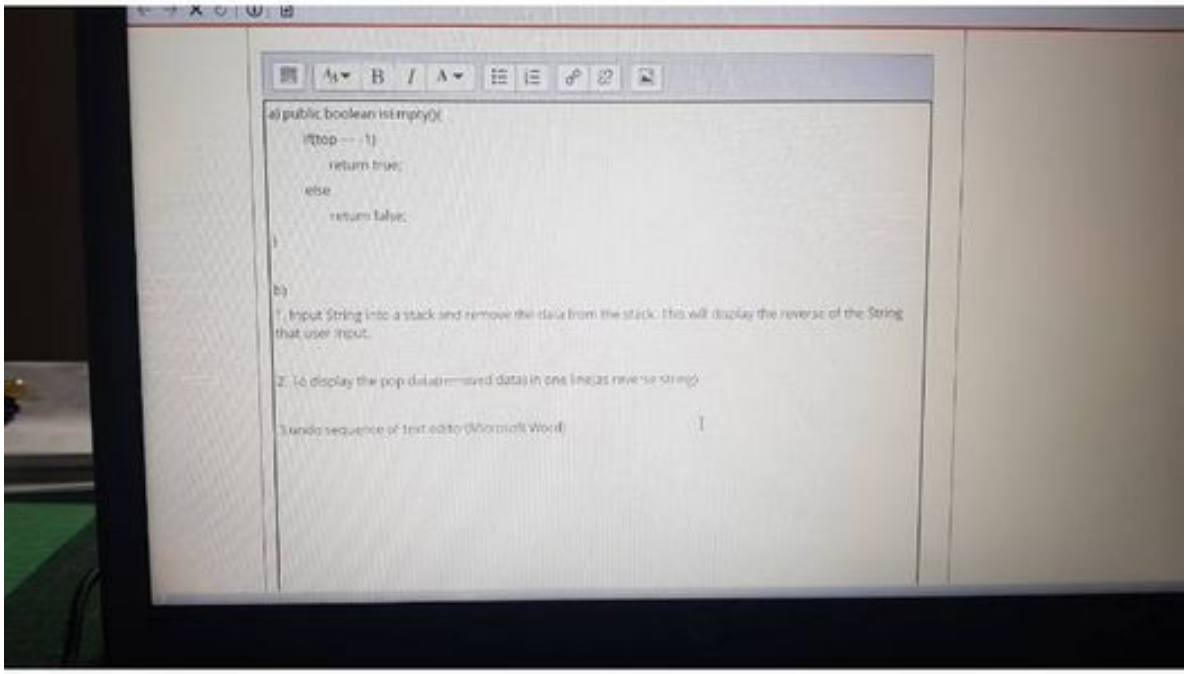
c. public int isEmpty() {
return (first == null);
}

d. public boolean isEmpty() {
return (first == null);
}

e. public string isEmpty() {
return (first == null);
}

Next page

TELEGRAM now
DSA Answers
Shalika Upamada: Mekt



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Question 2

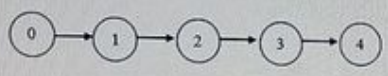
Not yet answered

Marked out of 10.00

Flag question

a)If modulo value is $q = 300$, how many spurious hits and valid hits do the **Rabin -Karp matcher** encounter in the text T =300300300300 when looking for pattern $P = 600$?

b)Consider the following incomplete state transition diagram for a string-matching automation for the pattern $P = bbba$ and take the input alphabet as $\{a,b\}$. The following incomplete table represents the input versus states for the state transition diagram. Find the missing states for the p, q, r, s, t, u, v and w to accept the given pattern.



State	Inputs	
	a	b
0	0	1
1	p	q
2	r	s
3	t	u
4	v	w

c)If patter P = AAB, how many character comparison would occur using Naive String Matching Algorithm for text T =AAAAAAAB?

≡ Quiz navig

Finish attempt

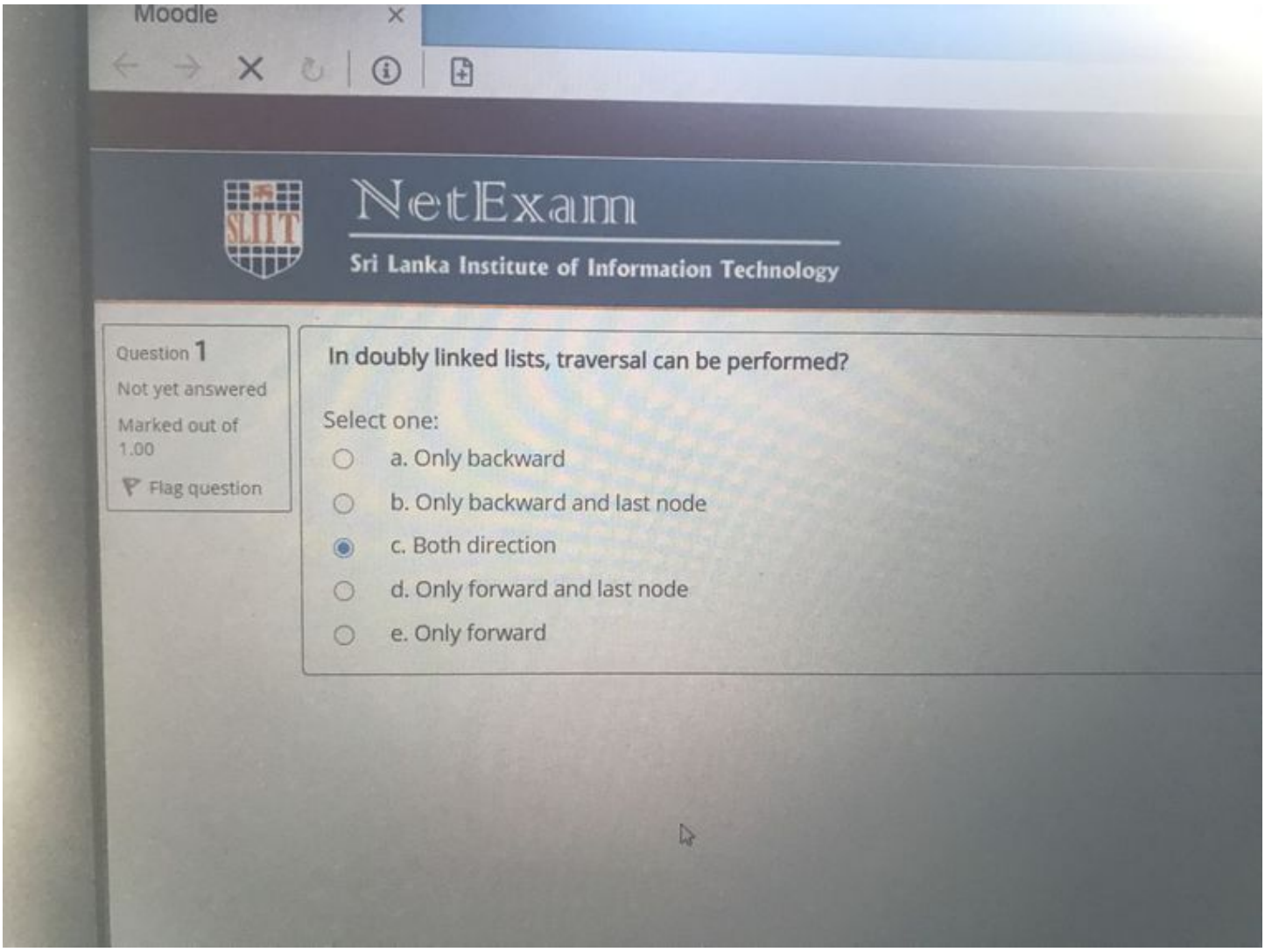
Time left 1:48:56

1 2 3

9 10 11

17 18 19

25


Moodle
NetExam
Sri Lanka Institute of Information Technology
Question 1
Not yet answered
Marked out of 1.00
Flag question
In doubly linked lists, traversal can be performed?
Select one:
a. Only backward
b. Only backward and last node
c. Both direction
d. Only forward and last node
e. Only forward

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n 7
answered
out of
question

If a full binary tree has the height of 5 then find the number of nodes of the full binary tree?

Select one:

- a. 127
- b. 63
- c. 255
- d. 31
- e. 15

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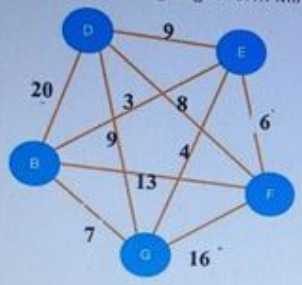
Question 2

Not yet answered

Marked out of 1.00

Flag question

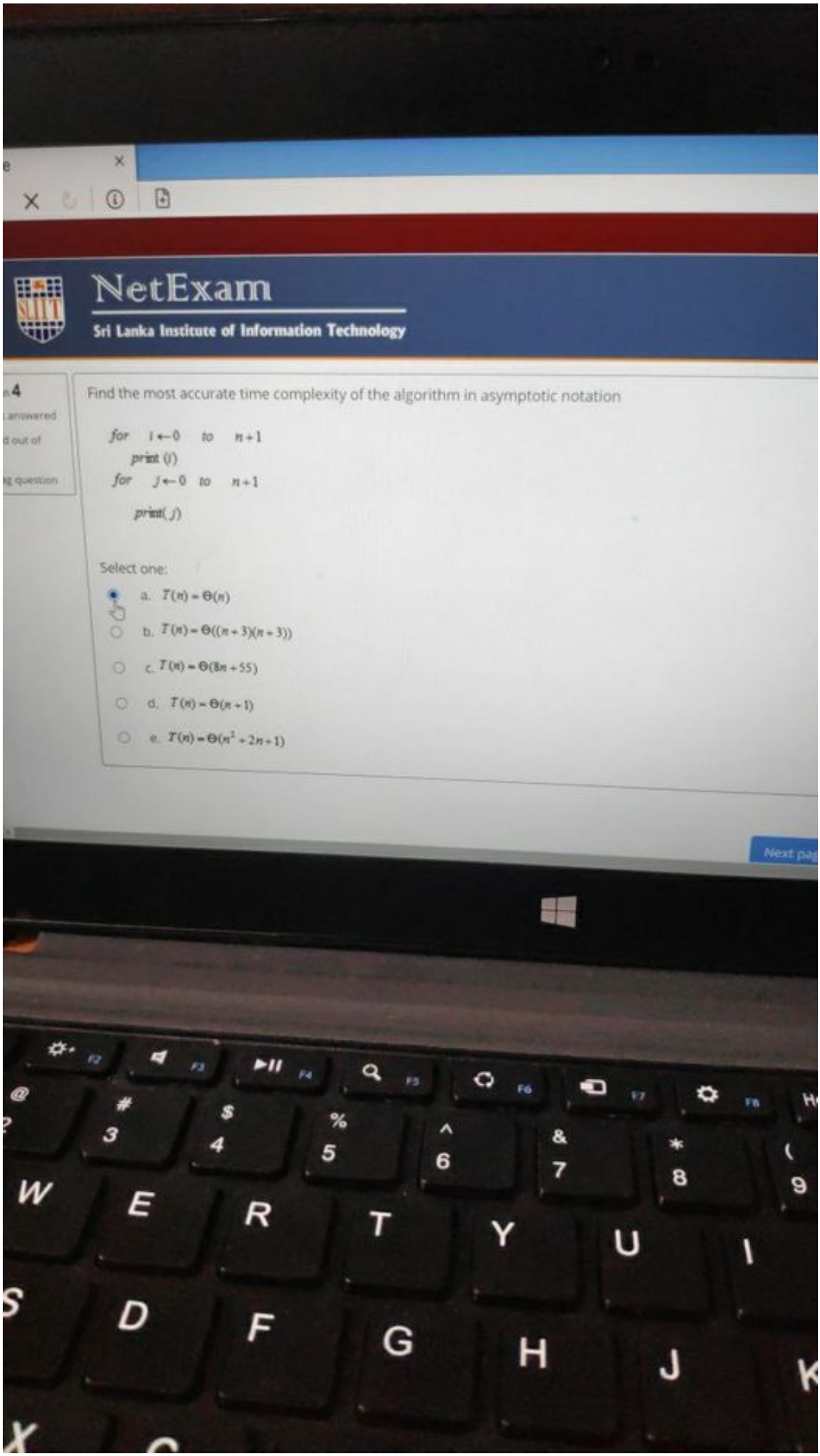
Which of the following edges form Minimum Cost Spanning Tree using Kruskal's algorithm?



Select one:

- a. (D – B), (B – E), (E – G), (G – F)
- b. (B – E), (E – G), (E – F), (F – D)
- c. (B – E), (E – G), (E – F), (E – D)
- d. (B – E), (E – G), (E – F), (B – G), (F – D)
- e. (B – E), (E – G), (E – F), (B – G), (D – F)

Next page


NetExam
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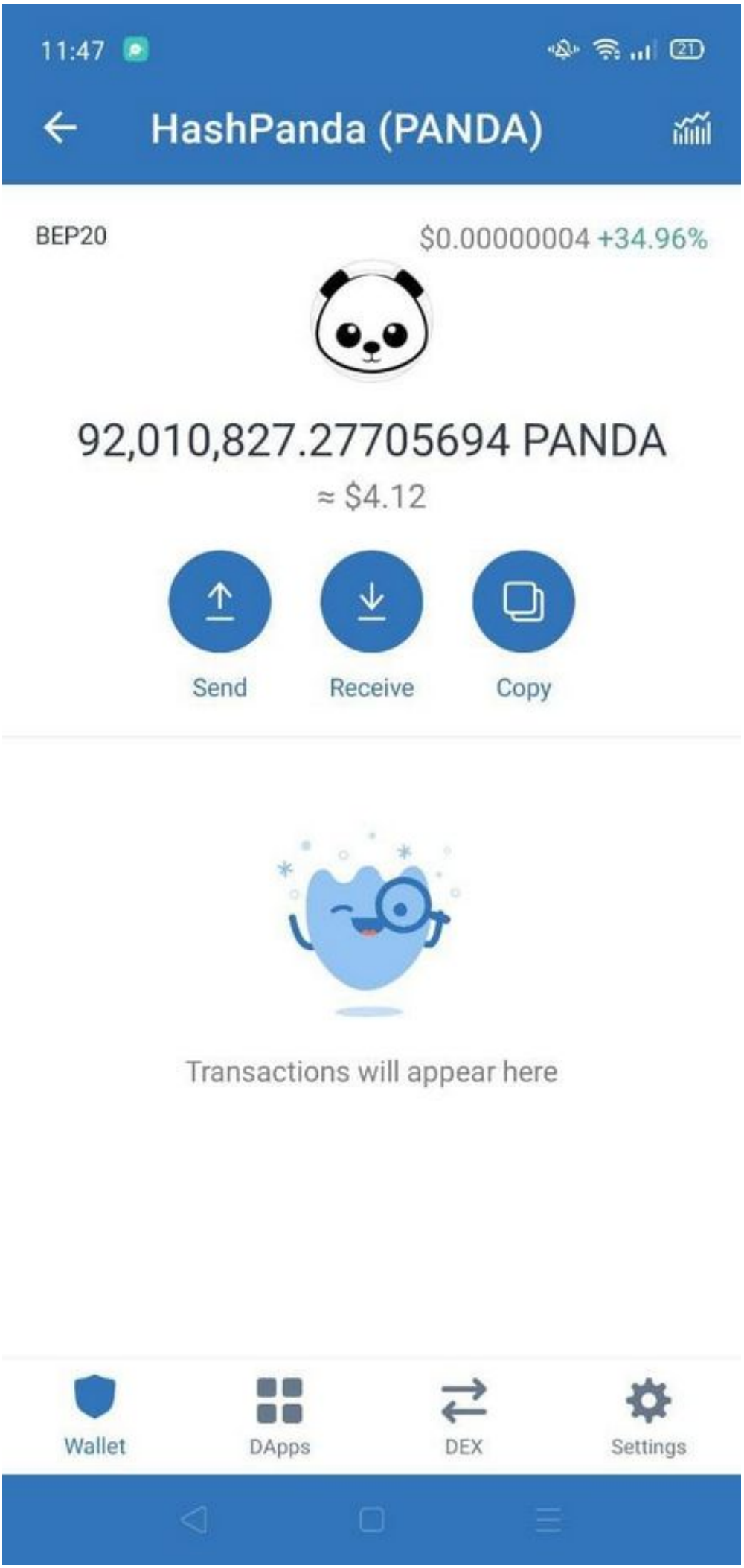
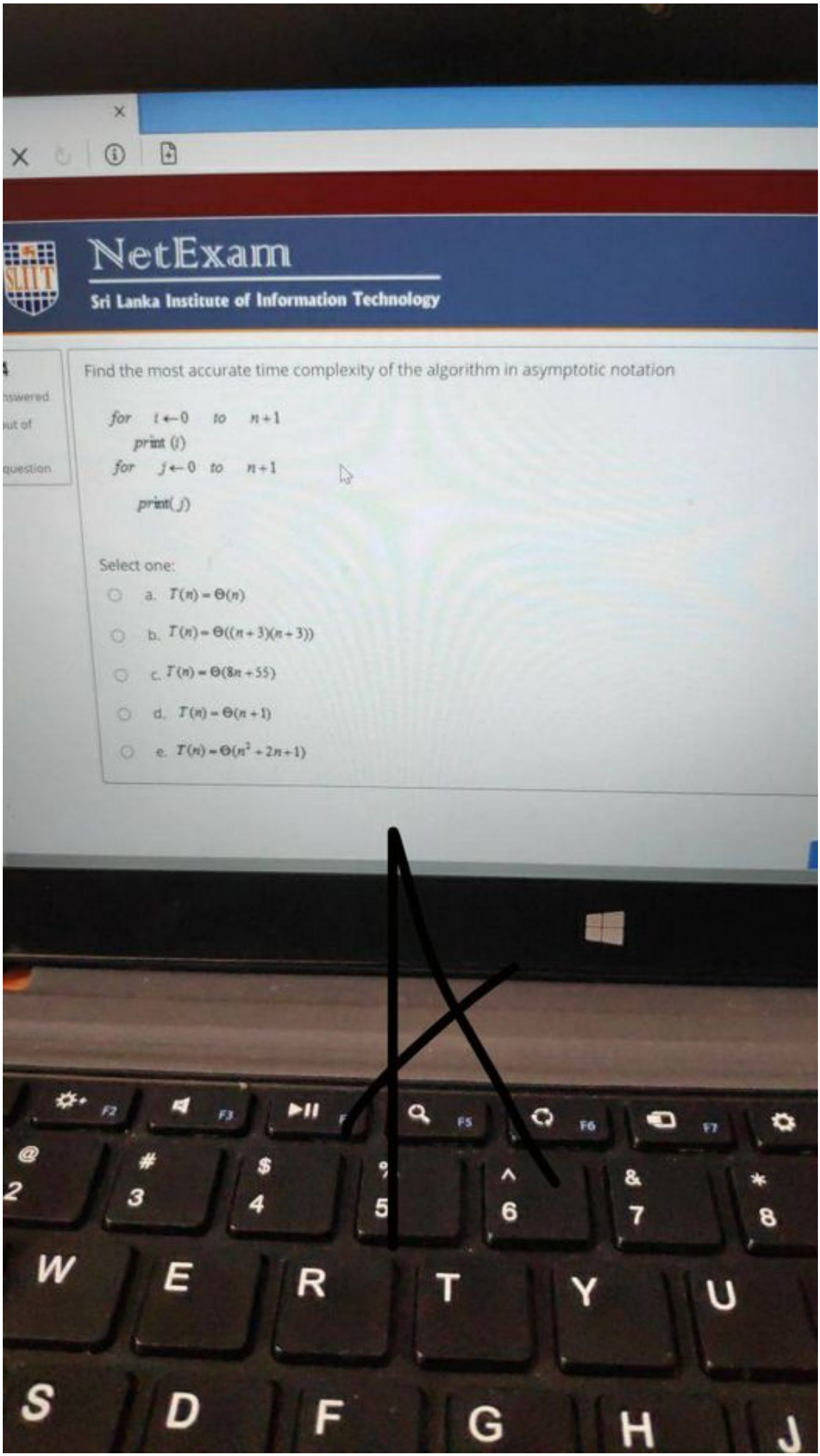
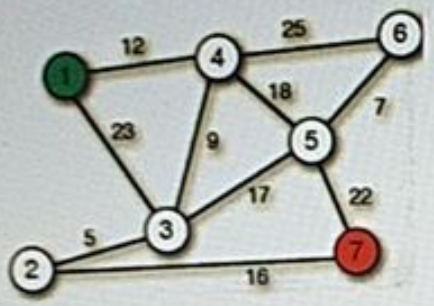
Find the most accurate time complexity of the algorithm in asymptotic notation
for i ← 0 to n + 1
print (i)
for j ← 0 to n + 1
print(j)
Select one:
a. T(n) = Θ(n)
b. T(n) = Θ((n + 3)(n + 3))
c. T(n) = Θ(8n + 55)
d. T(n) = Θ(n + 1)
e. T(n) = Θ(n² + 2n + 1)


11:47
HashPanda (PANDA)
BEP20
$0.00000004 +34.96%
92,010,827.27705694 PANDA
≈ $4.12
Send
Receive
Copy
Transactions will appear here
Wallet
DApps
DEX
Settings


NetExam
Sri Lanka Institute of Information Technology
Find the most accurate time complexity of the algorithm in asymptotic notation
for i←0 to n+1
print (i)
for j←0 to n+1
print(j)
Select one:
a. T(n) = Θ(n)
b. T(n) = Θ((n+3)(n+3))
c. T(n) = Θ(8n+55)
d. T(n) = Θ(n+1)
e. T(n) = Θ(n² + 2n+1)

a. Find the minimum cost for the spanning tree of the graph using Kuskal's or Prim's algorithm. Illustration is no answer.

b. Find the shortest distance from vertex 1 to vertex 7 using the Dijkstra's algorithm.. Illustration is not required



c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
j ← 1
a ← 1
for i ← 1 to 6 do
    j ← j +1
    while a ≤ 5
        a ← a +2
```

d.Design and algorithm to count the number of even number when user entered 100 integers as inputs.

Type here to search

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15

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out of

question

This is **not** an analysis method.

(a) Step count method

(b) Operation count method

(c) RAM model

(d) Asymptotic notations

(e) Divide and conquer method

Select one:

- a. c
- b. a
- c. d
- d. b
- e. e

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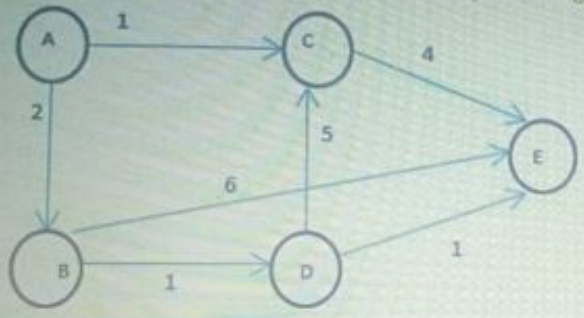
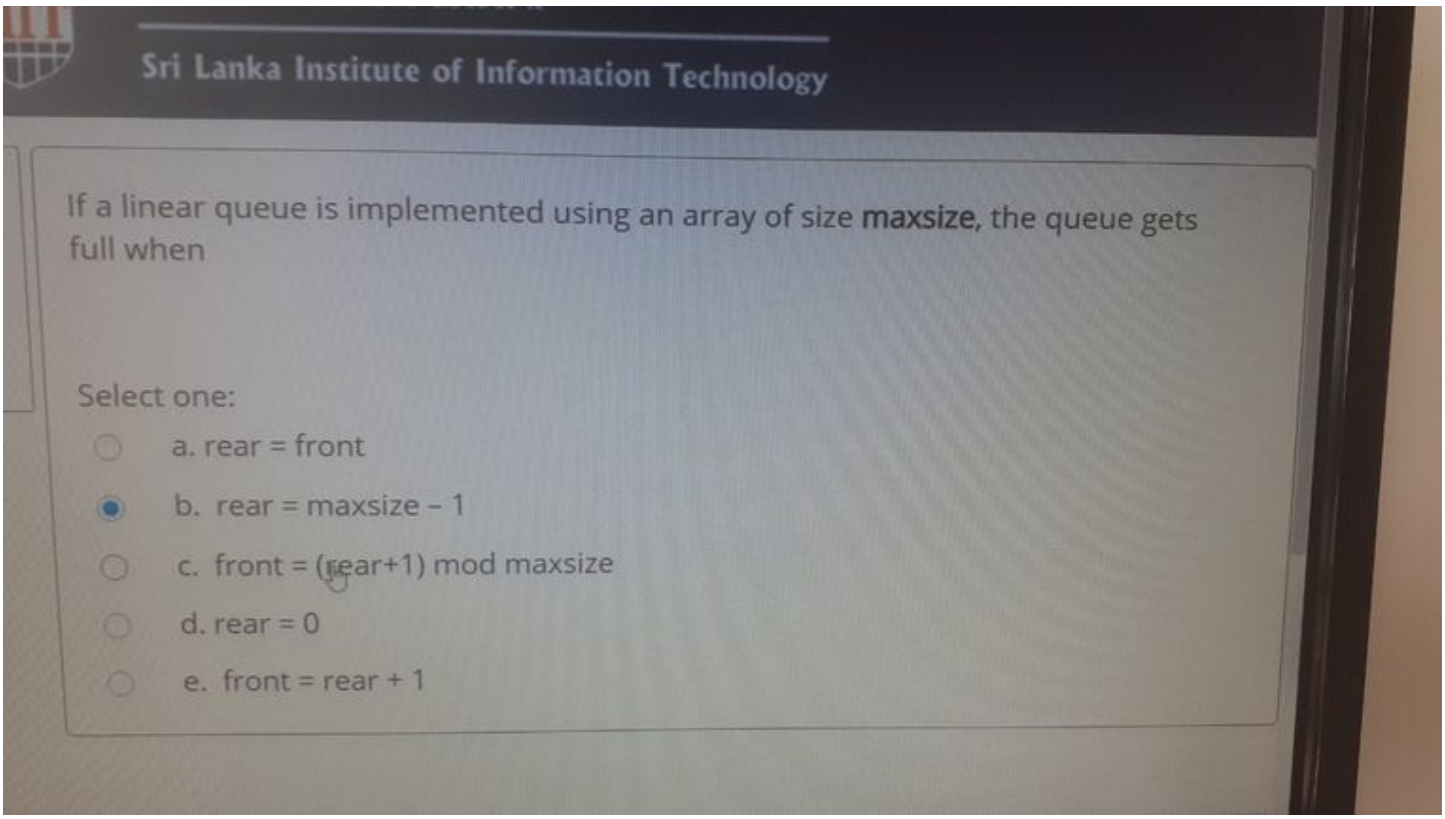
estion

Consider the below graph and apply the Dijkstra's algorithm to find the shortest path from the source vertex A to vertex E.



Select one:

- a. 3
- b. 8
- c. 4
- d. 5
- e. 7


Sri Lanka Institute of Information Technology
If a linear queue is implemented using an array of size maxsize, the queue gets full when
Select one:
a. rear = front
b. rear = maxsize – 1
c. front = (rear+1) mod maxsize
d. rear = 0
e. front = rear + 1

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Question 12

Not yet answered

Marked out of 1.00

Flag question

Consider the function f(n), which is defined below. n is a non-negative integer.

$$f(n) = \begin{cases} 5n & \text{if } n \text{ is even} \\ f(n-1) & \text{if } n \text{ is odd} \end{cases}$$

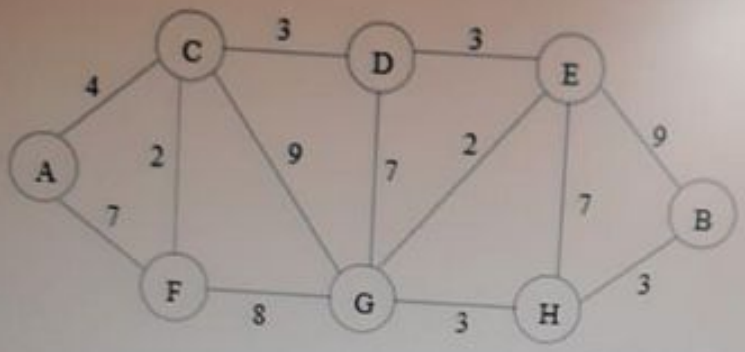
Use the above equation to manually compute f(11).

Select one:

- a. 55
- b. 5
- c. 1
- d. 50
- e. 11

a. Find the minimum cost for the spanning tree of the graph using Kuskal's or Prim's algorithm. illustration is not required to get the answer.

b. Find the shortest distance from vertex A to vertex B using the Dijkstra's algorithm. illustration is not required to get the answer.



c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
i ← 1
a ← 1
for  i ← 1  to 5 do
    i ← i +1
    while a ≤ 4
        a ← a +2
```

d.Design and algorithm to count the number of odd number when user entered 100 integers as inputs.

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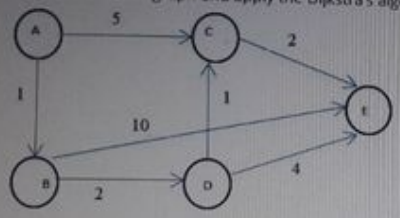
Question 4

Not yet answered

Marked out of 1.00

Flag question

Consider the below graph and apply the Dijkstra's algorithm to find the shortest path from the source vertex A to C and A to E



Select one:

- a. 4 and 7
- b. 4 and 6
- c. 5 and 7
- d. 5 and 11
- e. 5 and 6

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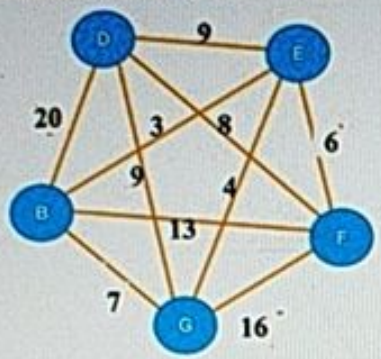
Which of the following edges form Minimum Cost Spanning Tree using Kruskal's algorithm?



Select one:

a. (B – E), (E – G), (E – F), (B – G), (F – D)

b. (D – B), (B – E), (E – G), (G – F)

c. (B – E), (E – G), (E – F), (B – G), (D – F)

d. (B – E), (E – G), (E – F), (F – D)

e. (B – E), (E – G), (E – F), (E – D)

Sri Lanka Institute of Information Technology

a)List the array elements in the order of the index number when the Max_Heapify(A,1) algorithms is applied to the following array elements.

A

1	2	3	4	5	6	7	8
2	25	16	10	8	3	7	1

b)List the array elements in the order of the index number when the Heap_Insert(A,20) algorithms is applied to the following array elements.

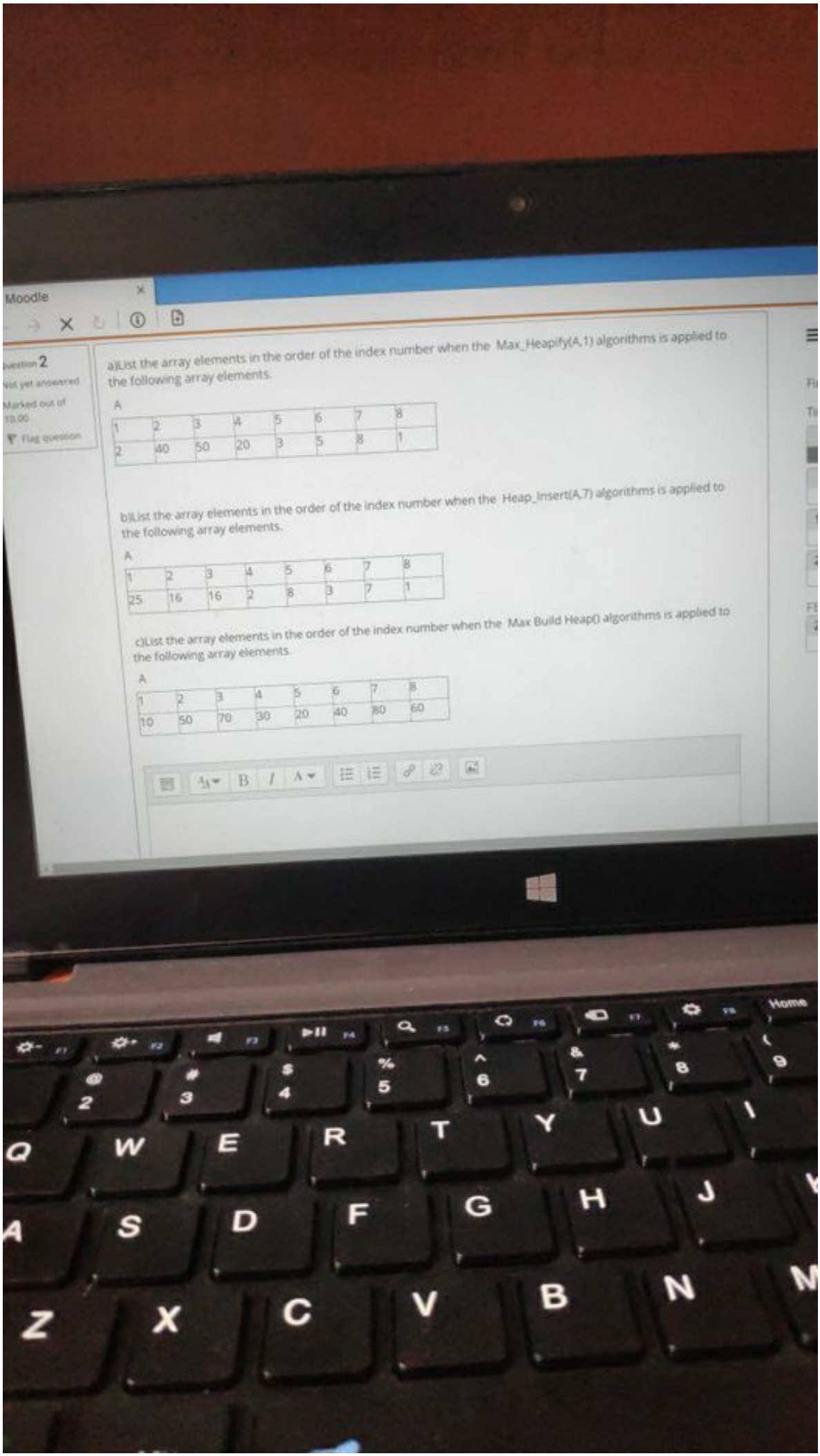
A

1	2	3	4	5	6	7	8
50	40	8	20	3	5	2	1

c) List the array elements in the order of the index number when the Max Build Heap() algorithms is applied to the following array elements.

A

1	2	3	4	5	6	7	8
40	10	60	70	30	20	80	50


Moodle
Question 2
Not yet answered
Marked out of 10.00
Flag question
a)List the array elements in the order of the index number when the Max_Heapify(A,1) algorithms is applied to the following array elements.
A
1 2 3 4 5 6 7 8
2 40 50 20 3 5 8 1
b)List the array elements in the order of the index number when the Heap_Insert(A,7) algorithms is applied to the following array elements.
A
1 2 3 4 5 6 7 8
25 16 16 2 8 3 7 1
c)List the array elements in the order of the index number when the Max Build Heap() algorithms is applied to the following array elements.
A
1 2 3 4 5 6 7 8
10 50 70 30 20 40 80 60
Home

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n 15

answered

d out of

g question

Find the number of steps (RAM model) of the following pseudo code.

```
a ←1
while(a <= n)
    print(a)
    a ←a+1
    for   b ←1   to   5
          print(b)
```

Select one:

- a. 25n + 2
- b. None of the above
- c. 26n + 2
- d. 4n + 2
- e. n + 1

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Consider the following recursive algorithm SUM(n):

```
SUM(n){
If n=0 Then
        Return 0
Else
        Return SUM(n-1)+n
}
```

Find the recurrence equations for the running time:

Select one:

- a. T(n)=C1+C2+T(n-1)*n
- b. T(n)=C1+C2+T(n-1)+n
- c. T(n)=C1+C2+T(n-1)
- d. T(n)=C1+C2+T(n-1) +n-1
- e. T(n)=C1+C2+T(n)

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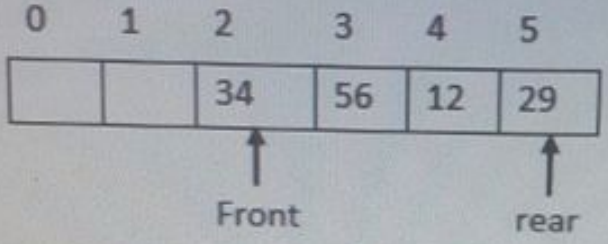
Consider the following linear queue.



Select the **incorrect** statement about the above queue.

Select one:

- a. The queue can store only 6 items
- b. Queue is full
- c. Can insert two more data items
- d. The next item remove from the queue is 34
- e. None of the above

Next page

Axolotl Finance

🔥Token burn Starts From Today - June 10

Full schedule of Token burn will be available on Whitepaper

Token burn #1 :

4,000,000,000,000 $AXO burned
(0.4% of Max supply)

Hash:

https://bscscan.com/tx/0x4a1d796bd1e6f30357a3ef7dbba2f1bd6cc1947fa69724ee67290b27a635e825

This will continue until 93% Burn

Binance (BNB) Blockchain Expl...

MUTE

Which of the following method adds a node to the link list at the beginning with the value of id?

Class details are given below:

```
class Link {
    public int iData;   // data item
    public Link next;   // reference to the next link
    public Link(int id) { // constructor
        iData = id;
        next  = null;    } }

class LinkList {
   private Link first;
    public LinkList() {    //constructor
     first = null;
    }
  }
```

Select one:

a.
```
public void insertFirst(int id) {
    Link newLink = Link(id);
    newLink.next = first;
    first = newLink;
}
```

b.
```
public void insertFirst(int id) {
    Link newLink = new Link(id);
    newLink.next = first;
    first = newLink;
}
```

c.
```
public void insertFirst(int id) {
    Link newLink = new Link();
    newLink.next = first;
    first = newLink;
}
```

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A function is defined as follows:

$$f(n) = \begin{cases} 3^{-n} - 1 & if\ n \leq 0 \\ f(n-5) & if\ n > 0 \end{cases}$$

Find the value of $f(11)$.

Select one:

- a. 80
- b. 26
- c. 6
- d. 1
- e. 81

a)

Spurious hits = 3

Valid hits = 1

b)

p - 0

q - 2

r - 3

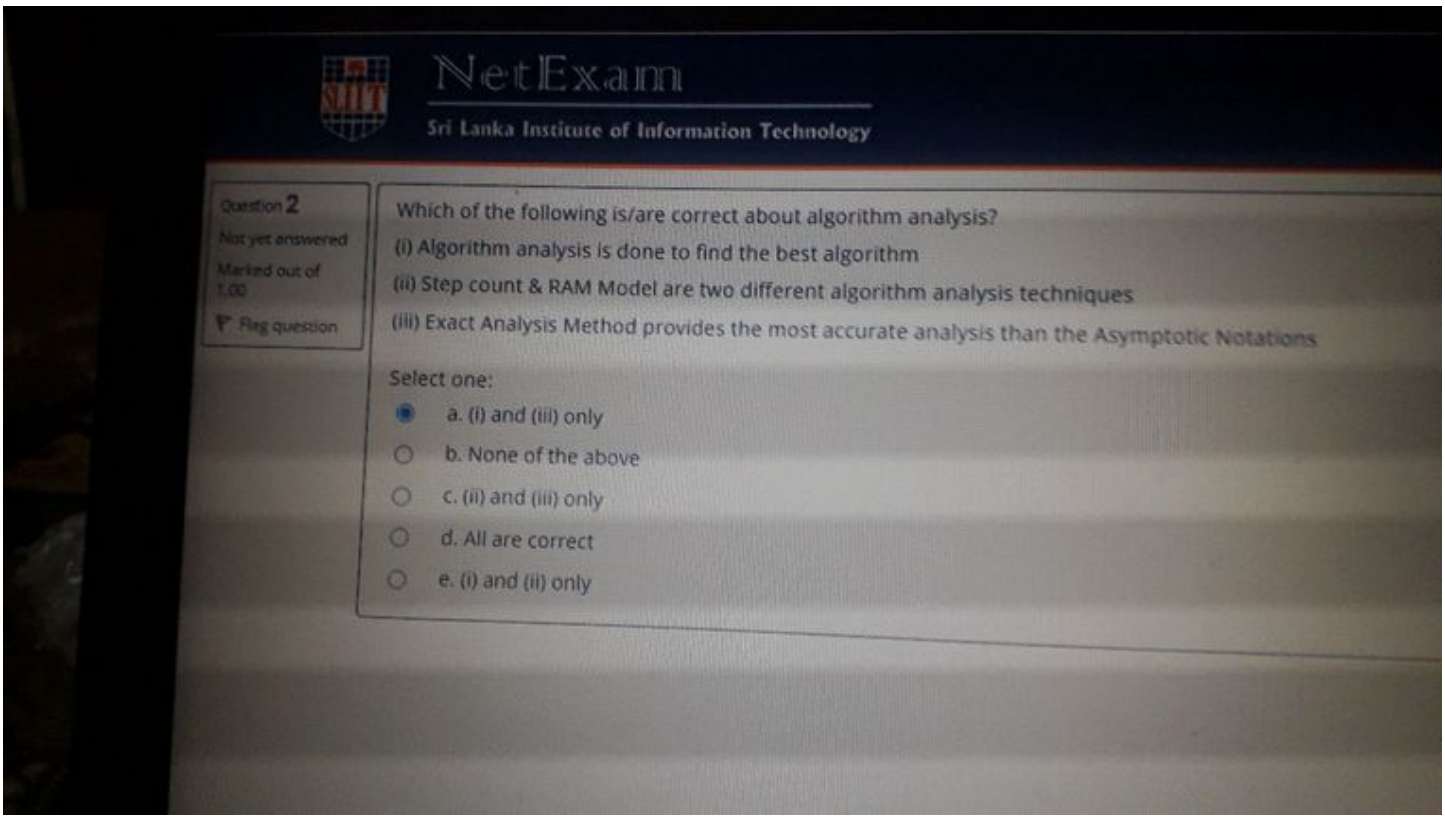
s - 2

t - 1

u - 4

v - 1

w - 2


NetExam
Sri Lanka Institute of Information Technology
Question 2
Not yet answered
Marked out of 1.00
Flag question
Which of the following is/are correct about algorithm analysis?
(i) Algorithm analysis is done to find the best algorithm
(ii) Step count & RAM Model are two different algorithm analysis techniques
(iii) Exact Analysis Method provides the most accurate analysis than the Asymptotic Notations
Select one:
a. (i) and (iii) only
b. None of the above
c. (ii) and (iii) only
d. All are correct
e. (i) and (ii) only

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Sri Lanka Institute of Information Technology

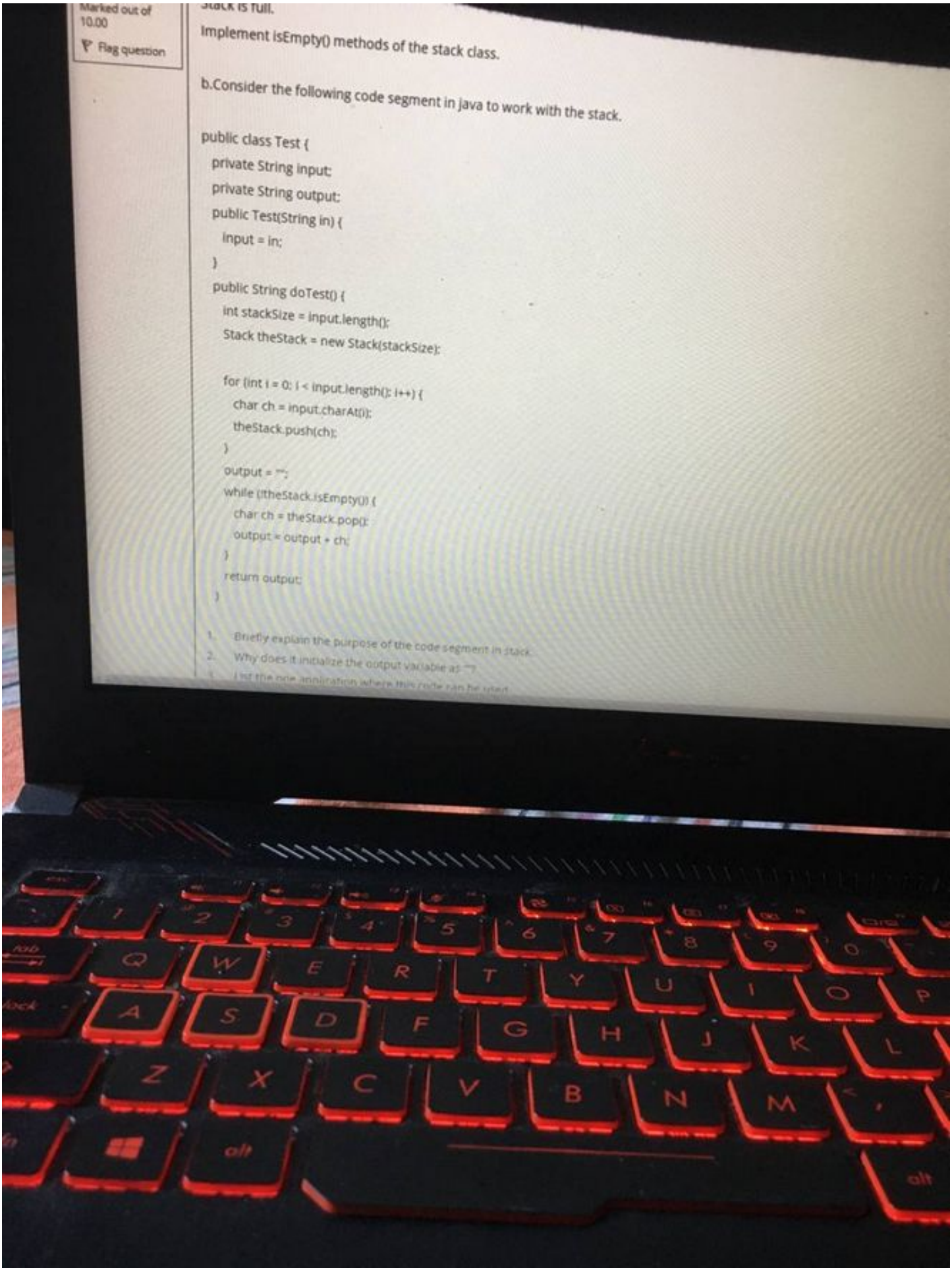
n 9
answered
out of
question

An algorithm, which is developed for finding the shortest path has the running time equation as, $T(n) = 5n + n\log n + 10$. Which is correct for its complexity?

Select one:

- a. $T(n) = O(n)$ or $T(n) = \Omega(n\log n)$
- b. $T(n) = O(n)$ or $T(n) = \Omega(n)$
- c. $T(n) = O(n\log n)$ or $T(n) = \Omega(n)$
- d. None of the above
- e. $T(n) = O(n\log n)$ or $T(n) = \Omega(n\log n)$

Next page



Marked out of 10.00

Flag question

Stack is full.

Implement isEmpty() methods of the stack class.

b.Consider the following code segment in java to work with the stack.

```
public class Test {
  private String input;
  private String output;
  public Test(String in) {
    input = in;
  }
  public String doTest() {
    int stackSize = input.length();
    Stack theStack = new Stack(stackSize);

    for (int i = 0; i < input.length(); i++) {
      char ch = input.charAt(i);
      theStack.push(ch);
    }
    output = "";
    while (!theStack.isEmpty()) {
      char ch = theStack.pop();
      output = output + ch;
    }
    return output;
  }
```

1. Briefly explain the purpose of the code segment in stack.
2. Why does it initialize the output variable as ""?
3. List the one application where this code can be used

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Question 9

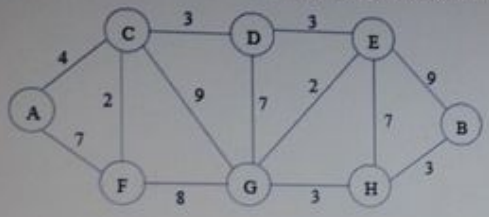
Not yet answered

Marked out of 10.00

Flag question

a. Find the minimum cost for the spanning tree of the graph using Kuskal's or Prim's algorithm. Illustration is not required to get the answer.

b. Find the shortest distance from vertex A to vertex B using the Dijkstra's algorithm.. Illustration is not required to get the answer.



c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
i ← 1
a ← 1
for  i ← 1  to 5 do
    j ← j +1
    while a ≤ 4
        a ← a +2
```

d.Design and algorithm to count the number of odd number when user entered 100 integers as inputs.

Quiz navigation

Sri Lanka Institute of Information Technology

Question 10

Not yet answered

Marked out of 1.00

Flag question

Find the most accurate time complexity of the algorithm in asymptotic notation

```
a←1
while(a<= n+ 5)
    i←0
    while(i <=n−5)
        print(i)
        i←i+1
    a←a+1
```

Select one:

a. $T(n) = \Theta(45n + 243)$

b. $T(n) = \Theta(n^2 - 25)$

c. $T(n) = \Theta(n + 5)$

d. $T(n) = \Theta((n + 5)(n - 5))$

e. $T(n) = \Theta(n^2)$

Find the number of steps (RAM model) of the following pseudo code.

```
j = 5
        while j <= 0
                j = j + 1
                print j
```

Select one:

- a. 2
- b. None of the above
- c. 1
- d. 26
- e. 25

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Use RAM Model to compute the step count of the following pseudo code.

```
j ← 0
n ← 1
while j<=5
        j ← j + 1
        while n < = 0
                n ←n + 1
```

Select one:

- a. 27 steps
- b. 2 steps
- c. 21 steps
- d. 63 steps
- e. 22 steps

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Question 2

Not yet answered

Marked out of 1.00

Flag question

If T(n) = T(3n/4) + cn^2 find the solution for T(n) using Master Theorem

$$T(n) = \begin{cases} \Theta(n^{\log_{b} a}) & f(n) = O(n^{\log_{b} a - \varepsilon}) \rightarrow f(n) < n^{\log_{b} a} \\ \Theta(n^{\log_{b} a} \lg n) & f(n) = \Theta(n^{\log_{b} a}) \rightarrow f(n) = n^{\log_{b} a} \\ \Theta(f(n)) & f(n) = \Omega(n^{\log_{b} a + \varepsilon}) \rightarrow f(n) > n^{\log_{b} a} \\ & \text{if } af(n/b) \le cf(n) \text{ for } c < 1 \text{ and large } n \end{cases}$$

Select one:

- a. $T(n) = \Theta(n^2 \log_2 n)$
- b. $T(n) = \theta(cn)$
- c. $T(n) = \Theta(n^2 \log_{12} n)$
- d. $T(n) = \Theta(cn^2)$
- e. $T(n) = \Theta(n^2)$

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Find the number of steps (RAM model) of the following pseudo co

```
j = 5

        while j <= 0

                j = j + 1

                print j
```

Select one:

- a. 1
- b. 26
- c. 25
- d. 2
- e. None of the above

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Consider the following java statement.

stackArray = new double[5];

What will be the **top** when the above stack is full?

Select one:

- a. 0
- b. None of the above
- c. 5
- d. 4
- e. 6

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Which of the following is/are correct about algorithm analysis?

(i) Algorithm analysis is done to find the best algorithm

(ii) Step count & RAM Model are two different algorithm analysis techniques

(iii) Exact Analysis Method provides the most accurate analysis than the Asymptotic Notations

Select one:

- a. (i) and (iii) only
- b. (ii) and (iii) only
- c. All are correct
- d. None of the above
- e. (i) and (ii) only

Moodle

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Question 3

Not yet answered

Marked out of 1.00

Flag question

Consider the following operations performed on an empty stack of size 5

Push(16)
Pop( )
Push(11)
Push(28)
Pop( )
Peek( )
Push(59)
Pop( )
Push(67)
Pop( )

The number of items remain in the stack is

Select one:

- a. 2
- b. 3
- c. 0
- d. 4
- e. 1

Moodle

Question 8

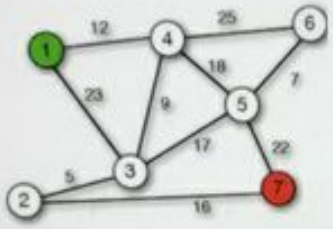
Not yet answered

Marked out of 10.00

Flag question

a. Find the minimum cost for the spanning tree of the graph using Kuskal's or Prim's algorithm. Illustration is not required to get the answer.

b. Find the shortest distance from vertex 1 to vertex 7 using the Dijkstra's algorithm.. Illustration is not required to get the answer.



c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
j ← 1
a ← 1
for  i ← 1  to 6 do
     j ← j +1
     while a ≤ 5
          a ← a +2
```

d.Design and algorithm to count the number of even number when user entered 100 integers as inputs.

≡ Quiz nav

Finish attempt ...

Time left 1:10:51

1	2	3
8	9	10
15	16	17
22	23	24

FEEDBACK

25

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The In-order traversal of a binary tree is A B C D E. Then possible post-order traversal will be

Select one:

- a. D B A E C
- b. A C B D E
- c. A C B E D
- d. D B E A C
- e. D B A C E

8:43 AM kik 1.6KB/s

313 of 315

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n 1
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question

Find the most accurate time complexity of the algorithm in asymptotic notatio

```
a←1
while(a<= n+ 5)
    i←0
    while(i <= n−5)
        print( i)
        i←i+1
    a←a+1
```

Select one:

- a. $T(n)=\Theta(n+5)$
- b. $T(n)=\Theta((n+5)(n-5))$
- c. $T(n)=\Theta(n^2-25)$
- d. $T(n)=\Theta(45n+243)$
- e. $T(n)=\Theta(n^2)$

Dulaj(sliit)
12.06.21 at 8:41 AM

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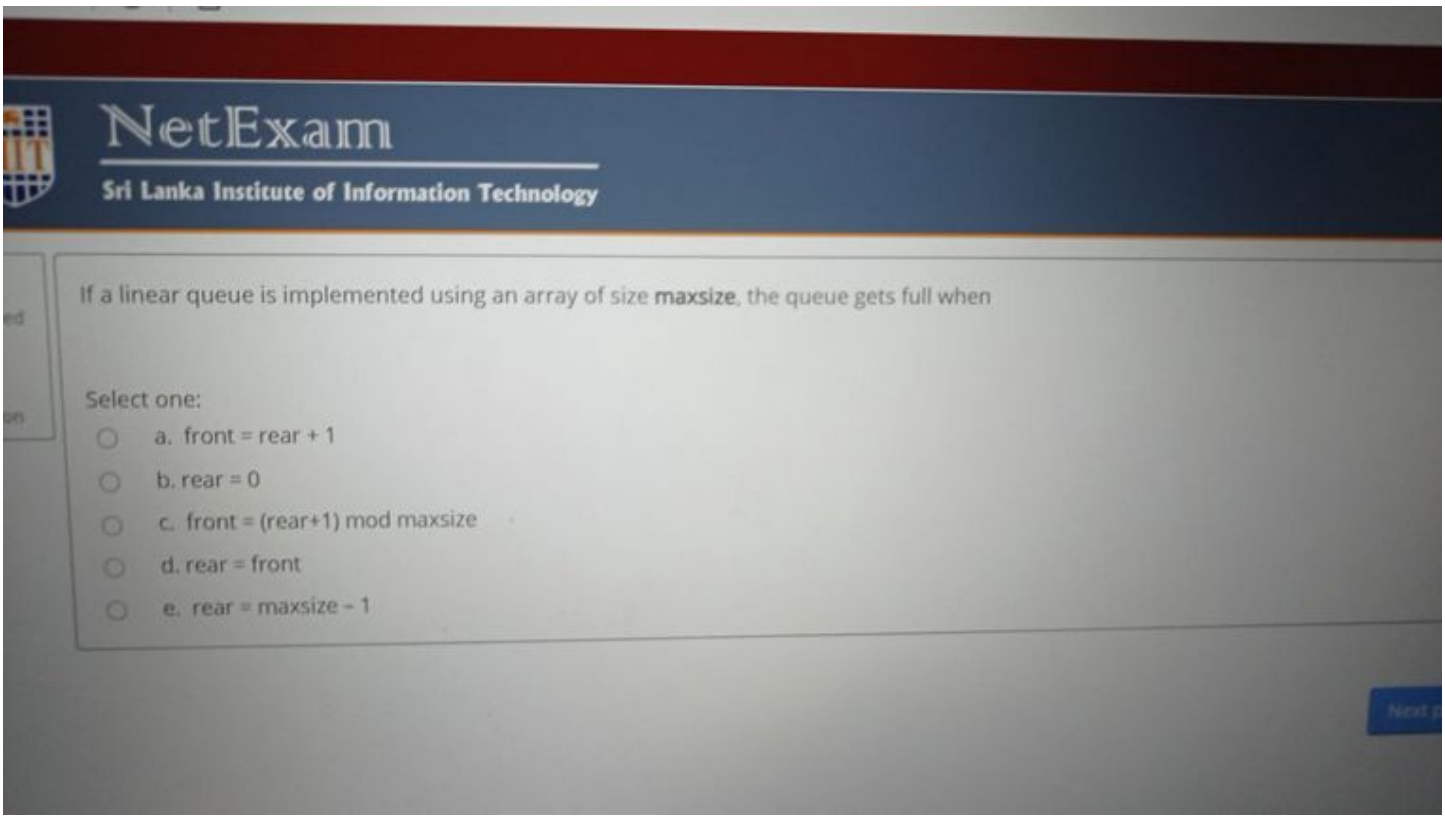
Find the number of steps (RAM model) of the following pseudo code.

```
a ←1
while(a <= n)
    print(a)
    a ←a+1
    for   b ←1   to   5
          print(b)
```

Select one:

- a. 25n + 2
- b. None of the above
- c. 26n + 2
- d. 4n + 2
- e. n + 1


NetExam
Sri Lanka Institute of Information Technology
If a linear queue is implemented using an array of size maxsize, the queue gets full when
Select one:
a. front = rear + 1
b. rear = 0
c. front = (rear+1) mod maxsize
d. rear = front
e. rear = maxsize - 1

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Question 1

Not yet answered

Marked out of 1.00

Flag question

Which of the following is correct recurrence equation:

Select one:

a. T(n)=T(3n/2)+C1

b. T(n)=T(2n)+C1

c. T(n)=T(n/2)+C1

d. T(n)=T(n+1)+C1

e. T(n)=T(5n/3)+C1

Next

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Question 3

Not yet answered

Marked out of 1.00

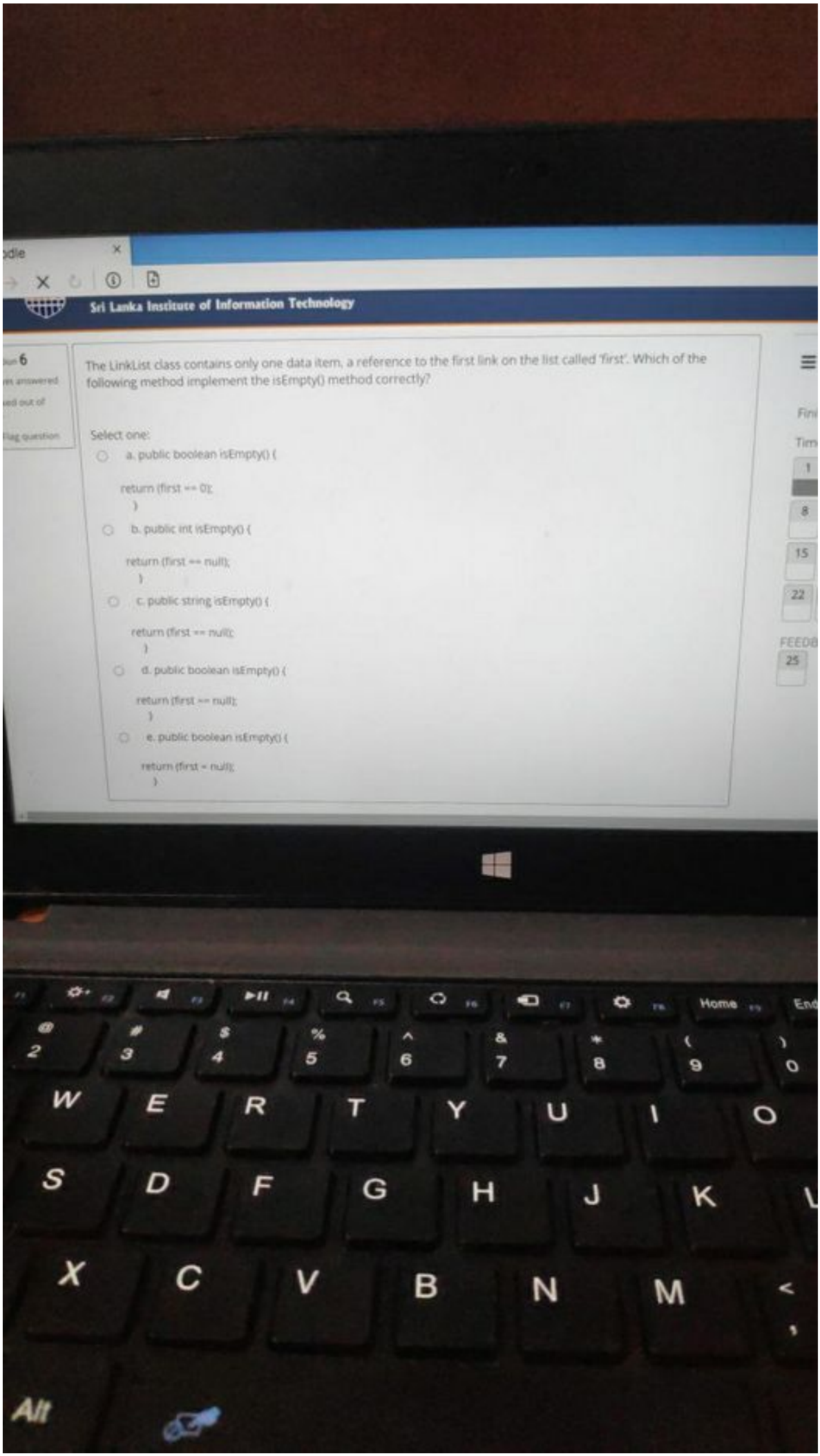
Flag question

Find the number of steps (RAM model) of the following pseudo code.

```
i = 0

while i <= 0

        i = i + 1

        print i
```

Select one:

- a. 1
- b. 6
- c. 2
- d. 46
- e. 45


Sri Lanka Institute of Information Technology
The LinkList class contains only one data item, a reference to the first link on the list called 'first'. Which of the following method implement the isEmpty() method correctly?
Select one:
a. public boolean isEmpty() {
return (first == 0);
}
b. public int isEmpty() {
return (first == null);
}
c. public string isEmpty() {
return (first == null);
}
d. public boolean isEmpty() {
return (first == null);
}
e. public boolean isEmpty() {
return (first = null);
}

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Consider the following java statement.

stackArray = new double[5];

What will be the **top** when the above stack is full?

Select one:

- a. 0
- b. None of the above
- c. 5
- d. 4
- e. 6

Question 12

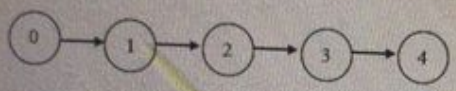
Not yet answered

Marked out of 10.00

Flag question

a)If modulo value is $q = 200$, how many spurious hits and valid hits do the **Rabin -Karp matcher** encounter in the text T =2004001200200 when looking for pattern $P = 400$?

b) Consider the following incomplete state transition diagram for a string-matching automation for the pattern P = *bbab* and take the input alphabet as {*a*,*b*}. The following incomplete table represents the input versus states for the state transition diagram. Find the missing states for the p, q, r, s, t, u, v and w to accept the given pattern.



State	Inputs	
	a	b
0	0	1
1	p	q
2	r	s
3	t	u
4	v	w

c)If patter P = CAB, how many character comparison would occur using Naive String Matching Algorithm for text T =AAAAAAAB?

Sri Lanka Institute of Information Technology

a)List the array elements in the order of the index number when the Max_Heapify(A,1) algorithms is

A

1	2	3	4	5	6	7	8
2	40	50	20	3	5	8	1

b)List the array elements in the order of the index number when the Heap_Insert(A,7) algorithms is ap

A

1	2	3	4	5	6	7	8
25	16	16	2	8	3	7	1

c)List the array elements in the order of the index number when the Max Build Heap() algorithms is a

A

1	2	3	4	5	6	7	8
10	50	70	30	20	40	80	60

Type here to search

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Question 1

Not yet answered

Marked out of 1.00

Flag question

1. Which of the following is correct?

(a) $n^3 + n^2 + 3n + 10 = O(n^3)$

(b) $n^3 + n^2 + 3n + 10 = O(n^2)$

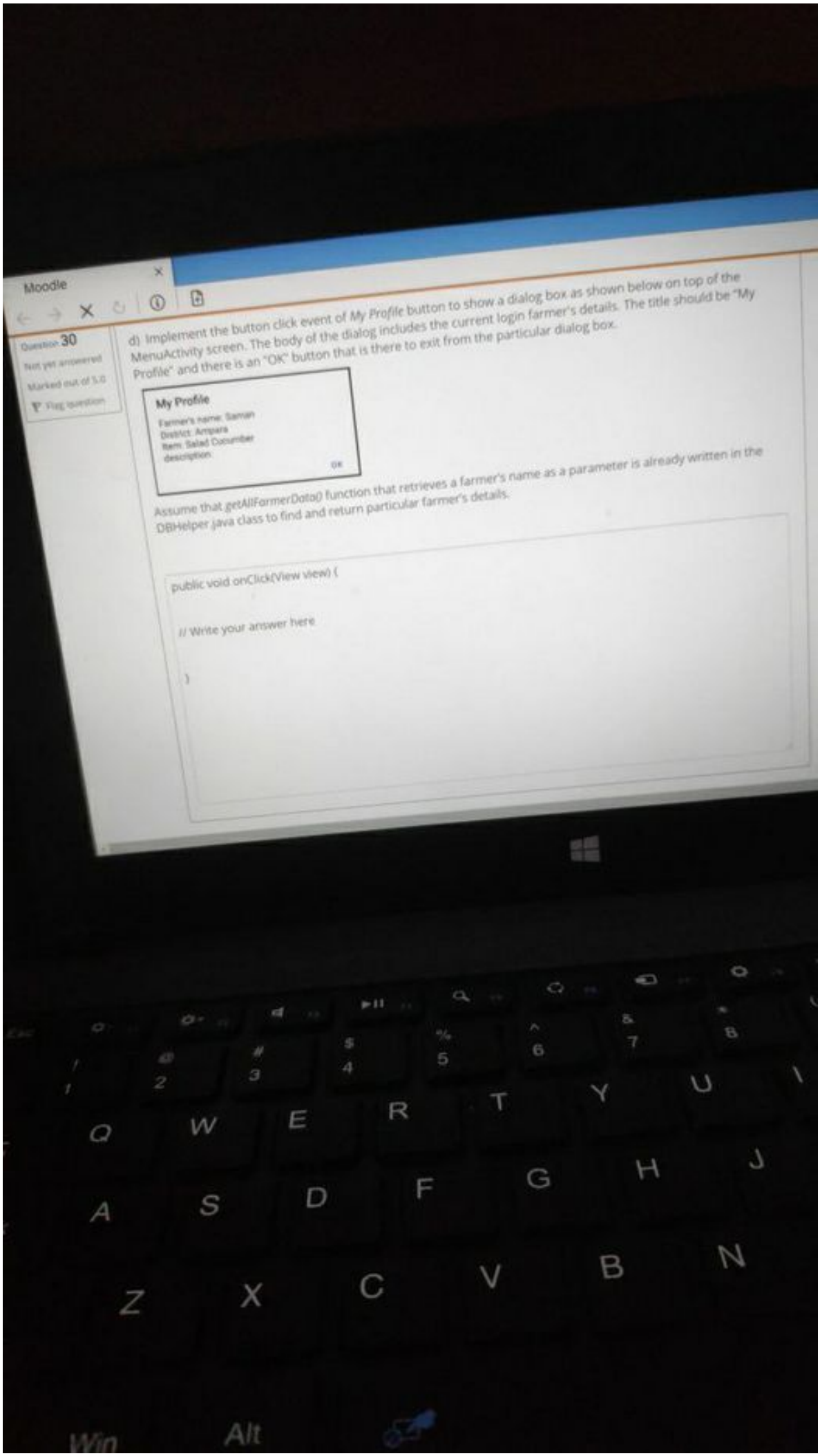
(c) $n^3 + n^2 + 3n + 10 = O(n)$

(d) $n^3 + n^2 + 3n + 10 = O(n^4)$

(e) $n^3 + n^2 + 3n + 10 = O(n^5)$

Select one:

- a. d only
- b. b only
- c. e only
- d. c only
- e. a only


Moodle
Question 30
Not yet answered
Marked out of 5.0
Flag question
d) Implement the button click event of My Profile button to show a dialog box as shown below on top of the MenuActivity screen. The body of the dialog includes the current login farmer's details. The title should be "My Profile" and there is an "OK" button that is there to exit from the particular dialog box.
My Profile
Farmer's name: Saman
District: Ampara
Item: Salad Cucumber
description
OK
Assume that getAllFarmerData() function that retrieves a farmer's name as a parameter is already written in the DBHelper java class to find and return particular farmer's details.
public void onClick(View view) {
// Write your answer here
}

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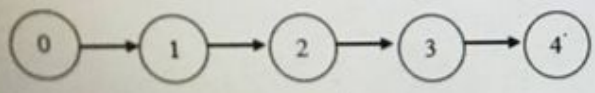
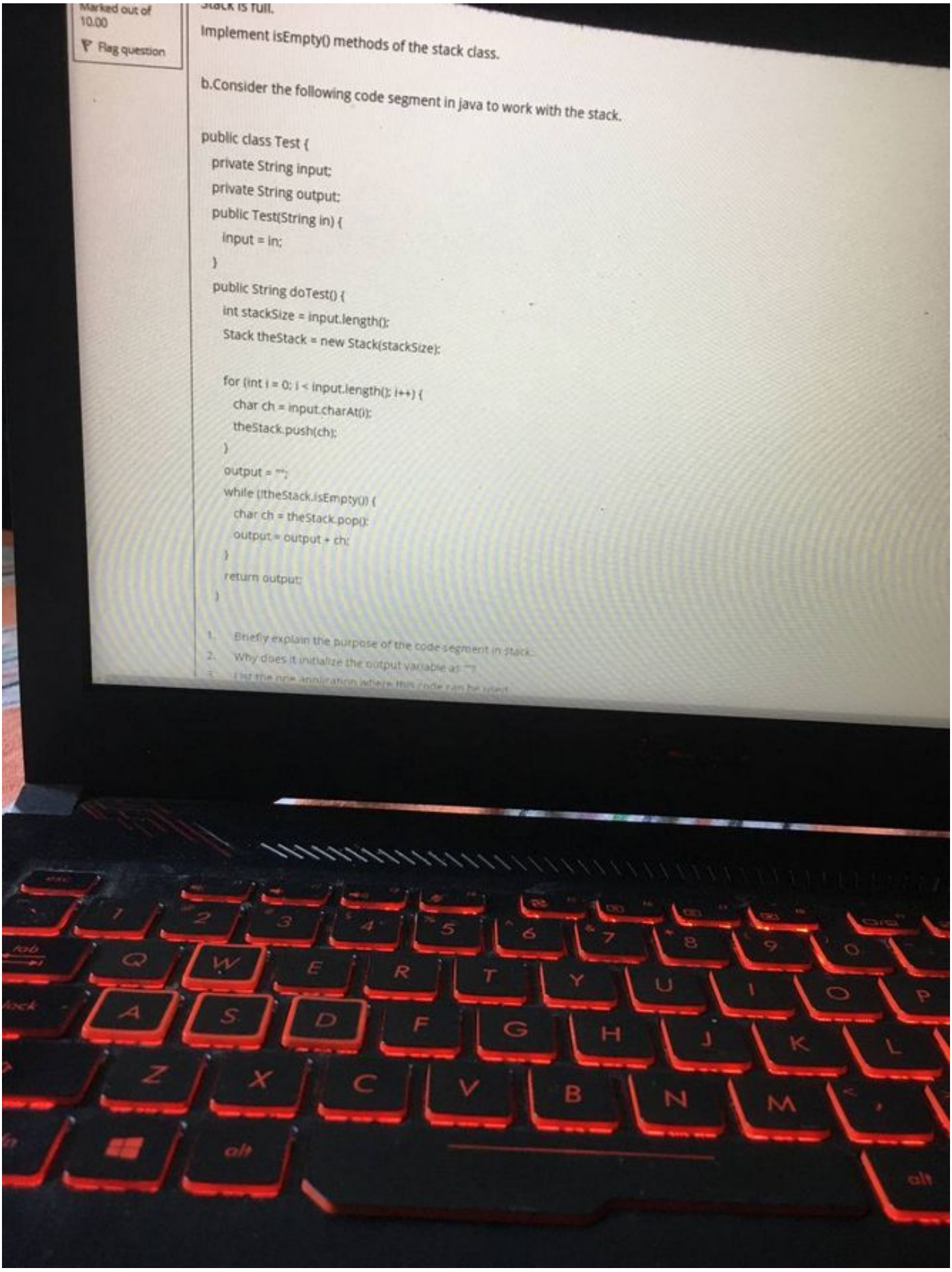
a)If modulo value is $q = 300$, how many spurious hits and valid hits do the **Rabin -Karp matcher** encounter in the text T =300300300300 when looking for pattern $P = 600$?

b)Consider the following incomplete state transition diagram for a string-matching automation for the pattern P = ***bbba*** and take the input alphabet as {*a,b*}. The following incomplete table represents the input versus states for the state transition diagram. Find the missing states for the p, q, r, s, t, u, v and w to accept the given pattern.



State	Inputs	
	a	b
0	0	1
1	p	q
2	r	s
3	t	u
4	v	w

c)If patter P = AAB, how many character comparison would occur using Naive String Matching Algorithm for text T =AAAAAAAB?



Marked out of 10.00

Flag question

Stack is full.

Implement isEmpty() methods of the stack class.

b.Consider the following code segment in java to work with the stack.

```
public class Test {
  private String input;
  private String output;
  public Test(String in) {
    input = in;
  }
  public String doTest() {
    int stackSize = input.length();
    Stack theStack = new Stack(stackSize);

    for (int i = 0; i < input.length(); i++) {
      char ch = input.charAt(i);
      theStack.push(ch);
    }
    output = "";
    while (!theStack.isEmpty()) {
      char ch = theStack.pop();
      output = output + ch;
    }
    return output;
  }
```

1. Briefly explain the purpose of the code segment in stack.
2. Why does it initialize the output variable as ""?
3. List the real application where this code can be used

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Question 1

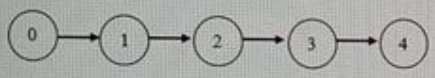
Not yet answered

Marked out of 10.00

Flag question

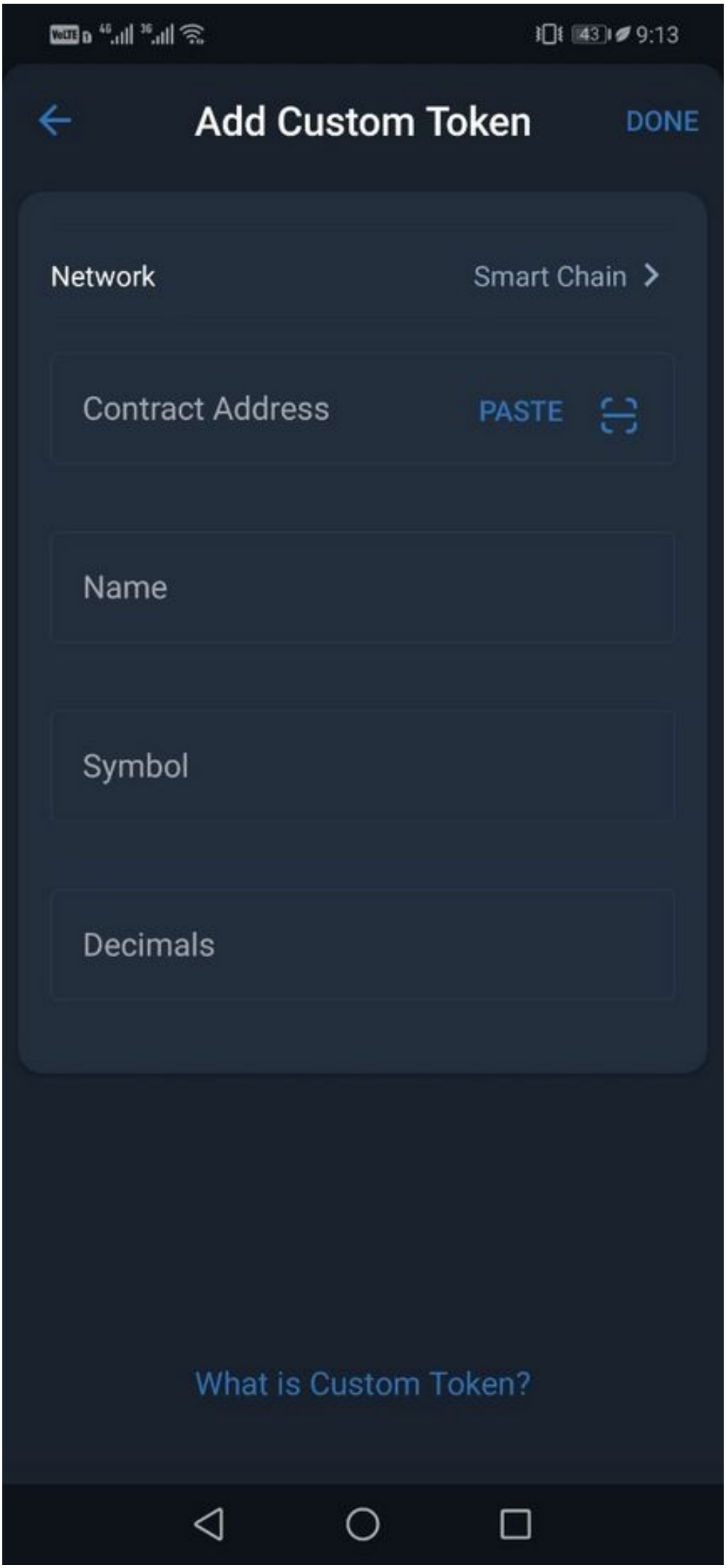
a)If modulo value is $q = 300$, how many spurious hits and valid hits do the **Rabin -Karp matcher** encounter in the text T =300300300300 when looking for pattern $P = 600$?

b)Consider the following incomplete state transition diagram for a string-matching automation for the pattern P = ***bbba*** and take the input alphabet as {*a,b*}. The following incomplete table represents the input versus states for the state transition diagram. Find the missing states for the p, q, r, s, t, u, v and w to accept the given pattern.



State	inputs	
	a	b
0	0	1
1	p	q
2	r	s
3	t	u
4	v	w

c)If patter P = AAB, how many character comparison would occur using Naive String Matching Algorithm for text T =AAAAAAAB?


9:13
Add Custom Token
DONE
Network
Smart Chain
Contract Address
PASTE
Name
Symbol
Decimals
What is Custom Token?

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10

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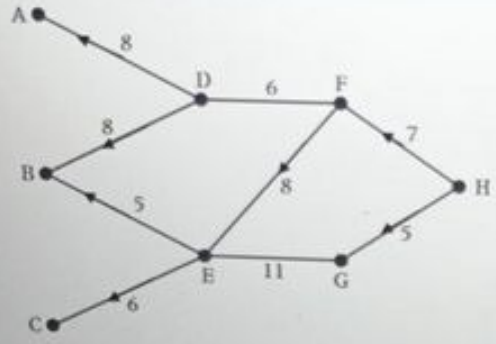
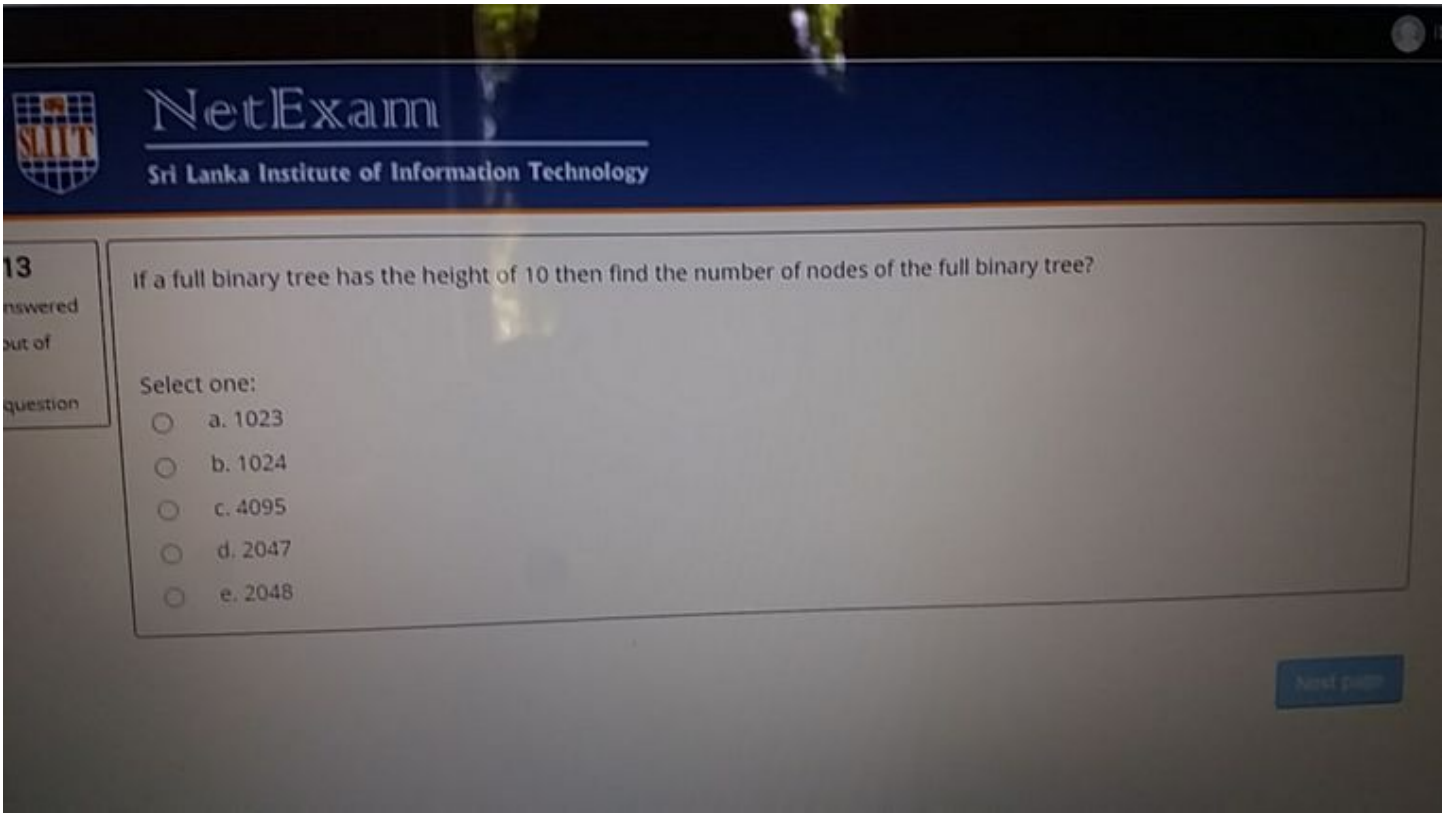
question

Apply Dijkstra's algorithm and find out which of the vertices (A, B or C) nearest to H and the distance



Select one:

- a. A only, the distance is 14
- b. B only, the distance is 20
- c. C only, the distance is 22
- d. A and B only, the distance is 21
- e. A, B and C , the distance is 21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13
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question
If a full binary tree has the height of 10 then find the number of nodes of the full binary tree?
Select one:
a. 1023
b. 1024
c. 4095
d. 2047
e. 2048

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on 14

t answered

d out of

g question

This is **not** an analysis method.

(a) Step count method

(b) Operation count method

(c) RAM model

(d) Asymptotic notations

(e) Divide and conquer method

Select one:

- a. c
- b. e
- c. a
- d. b
- e. d

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Consider the following pseudo code

```
Multiply (m,n)

if (n = 1)
    return  m;

else
    return (m + Multiply(m, n-1))
```

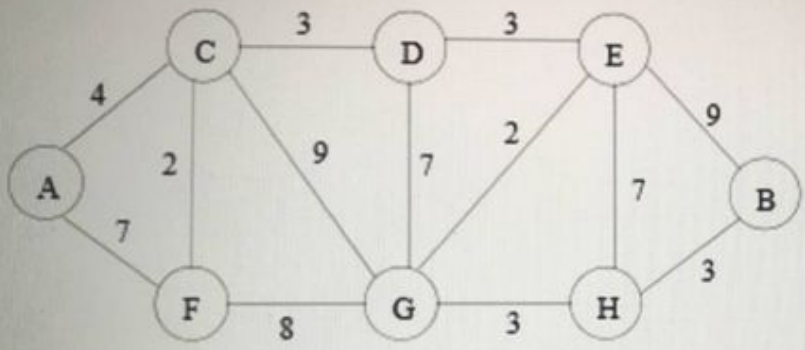
What is the recurrence equation for this pseudo code?

Select one:

- a. T(n) = T(n-1) + c
- b. T(n) = T(m-1) + c1 + c2
- c. T(n) = T(m-n) + c1 + c2
- d. None of the above
- e. T(n) = T(mn-1) + c

a. Find the minimum cost for the spanning tree of the graph using Kuskal's or Prim's algorithm. Illustration is not required to get the answer.

b. Find the shortest distance from vertex A to vertex B using the Dijkstra's algorithm.. Illustration is not required to get the answer.



c.Calculate the running time of the following program fragment assuming a RAM model of computation.

```
j ← 1
a ← 1
for i ← 1 to 5 do
    j ← j +1
    while a ≤ 4
        a ← a +2
```

d.Design and algorithm to count the number of odd number when user entered 100 integers as inputs.

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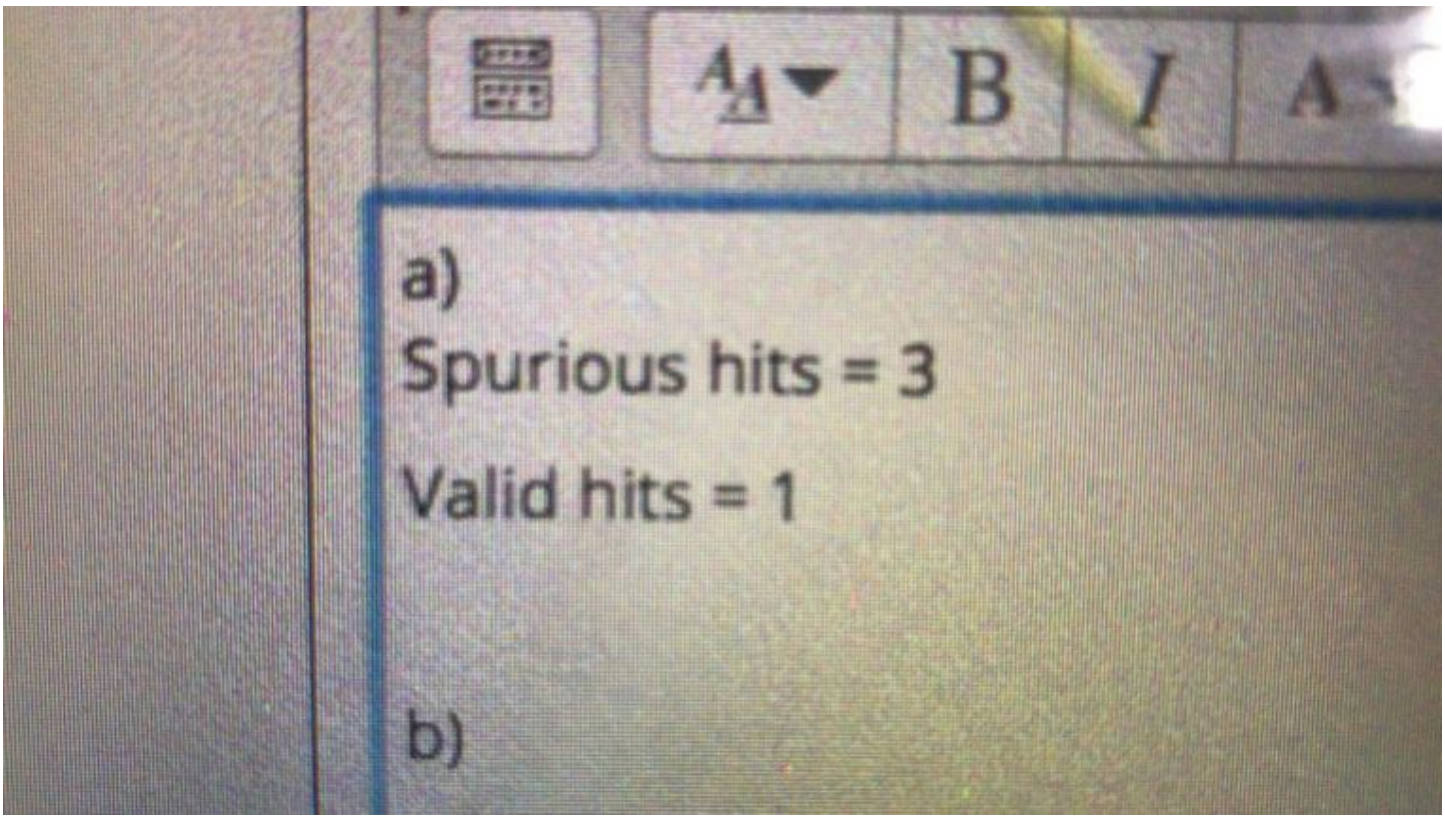
B
I
a)
Spurious hits = 3
Valid hits = 1
b)

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You are given pointers to first and last nodes of a singly linked list, which of the following operations are dependent on the length of the linked list?

Select one:

- a. Delete the first element
- b. Insert a new element as a first element
- c. Delete the last element of the list
- d. Delete the second element
- e. Add a new element at the end of the list

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Question 6

Not yet answered

Marked out of 1.00

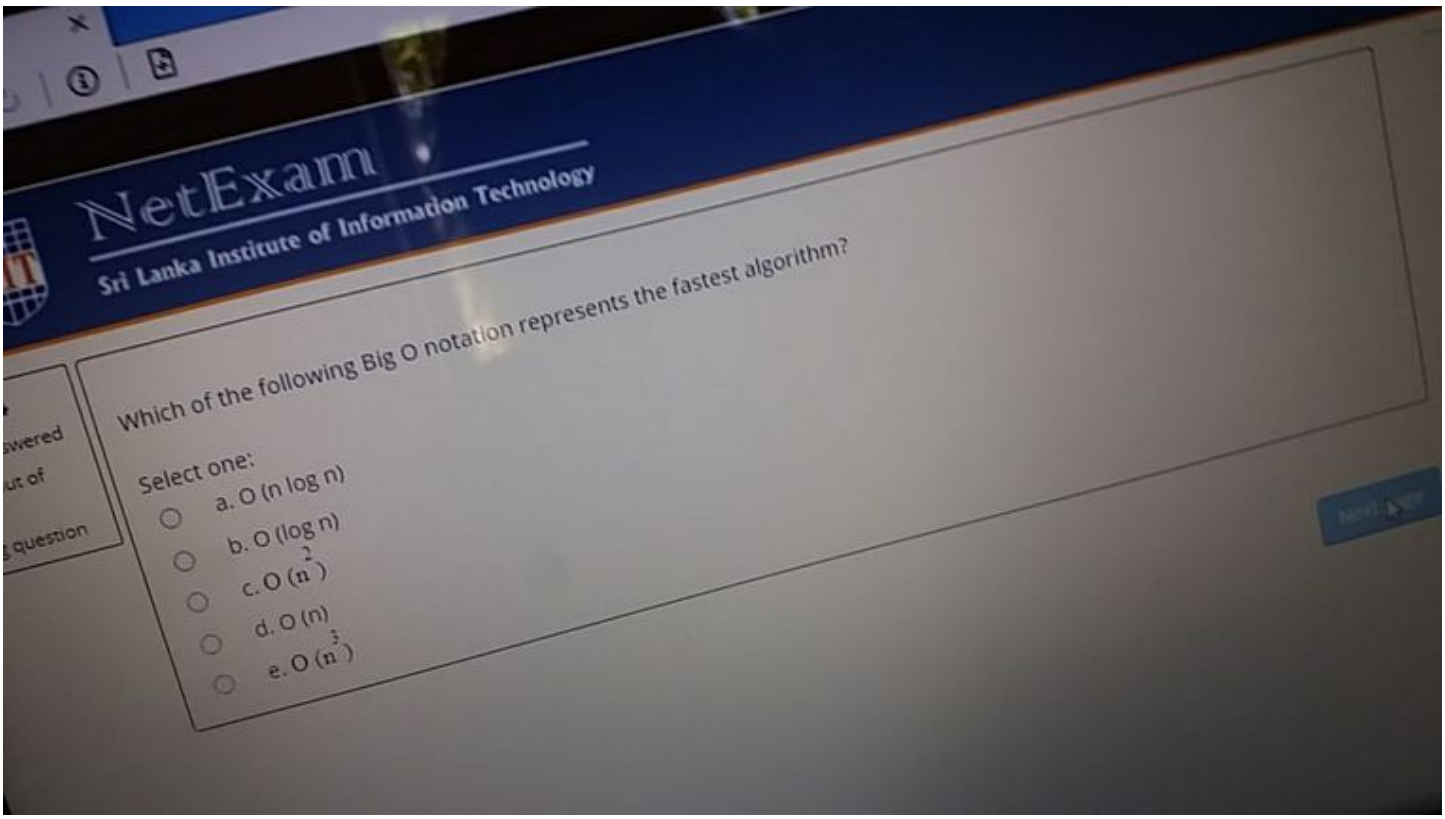
Flag question

Find the number of steps (RAM model) of the following pseudo code.

```
a ← 1
b ← 1
while(a <= n)
    print(a)
    a ← a+1
    while(b <= 5)
        print(b)
        b ← b+1
```

Select one:

- a. None of the above
- b. 25n + 2
- c. 25n + 3
- d. 5n + 22
- e. 5n+ 23


NetExam
Sri Lanka Institute of Information Technology
Which of the following Big O notation represents the fastest algorithm?
Select one:
a. O (n log n)
b. O (log n)
c. O (n²)
d. O (n)
e. O (n³)

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1. Which of the following Big O notation represents the fastest algorithm?

(a) O(n)

(b) O(logn)

(c) O(nlogn)

(d) $O(n^2)$

(e) $O(n^3)$

Select one:

- a. c
- b. d
- c. a
- d. e
- e. b

A function is defined as follows:

$$f(n) = \begin{cases} 2^n + 1 \ \text{if } n \leq 5 \\ f(n-8) \ \text{if } n > 5 \end{cases}$$

Find the value of $f(11)$.

Select one:

- a. 8
- b. 3
- c. 16
- d. 9
- e. 7

Question 19

Not yet answered

Marked out of 1.00

Flag question

If a full binary tree has the height of 4 then find the number of

Select one:

- a. 63
- b. 31
- c. 127
- d. 255
- e. 15