

# CS-101 Endsem Exam

①

Date 7/3/22

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Division:- D-3, T-8

ROLL NO:- 210260014

Branch:- Engineering Physics

Ans 1 Yes.

1234567

Ans 2 line 1: \*a

2134567

line 2: \*a = \*b

3124567

line 3: \*b = \*temp

7123456

Ans 3 line 4: lt(arr[j], arr[j+1])

7612345

line 5: arr[j], arr[j+1]

76543(2)1.

line 6: gt(arr[j], arr[j+1])

67

line 7: arr[j], arr[j+1]

2

Ans 4. 6-0

$$a = \frac{b \cdot k + c}{b \cdot k + c}$$

Ans 5. 21-0

1234567

(1)

sought

Ans 6 6-0

Ans 7 (\*a-key <= (\*b-key + epsilon)) & (\*a-key >= (\*b-key - epsilon))

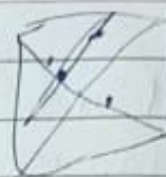
123

Ans 8 line 2: lt(sought, arr[mid])  
line 3: gt(sought, arr[mid])

Ans 9 1-0

Ans 10 3-0

(2)

Date: i-01

Ans 11 1.0

Ans 12  $\text{cpa}[i] \cdot \text{fc} \rightarrow \text{calc} = \text{cpa}[i] \cdot \text{fc} \cdot \text{lost}$   
 $(\text{cpa}[i] \cdot \text{fc}) \cdot \text{calc} = (\text{cpa}[i] \cdot \text{fc}) \cdot \text{lost}$   
 $\text{cpa}[i] \cdot \text{fc} \rightarrow \text{calc} = \text{cpa}[i] \cdot \text{fc} \cdot \text{lost} / \text{wmn\_an}[i]$   
 $\rightarrow \text{quantity}.$

Ans 13  $\text{ks}[i] \cdot \text{quantity} = \max(\text{ks\_cap}, \text{cpa}[i] \cdot \text{fc} \rightarrow \text{quantity})$

a 1 3 2 4

→  
1 3 2 5

Ans 14 7.0

secret

15 53 18 520 16

Ans 15 60.0

23 9 7 22 9 24 19

wigvixs

Ans 16 2.0

12 → 16  
1 PAns 17  $C == ' - ' \parallel C == ' ; ' \parallel C == ' . '$ 

14-6

Ans 18 ip-wigvixs

1 2 3 4 5 6 7 8

4 1 0 1 4 9 16 25

10 25 25

Ans 19. 8.0

Ans 20. fifty-two

Ans 21. 52.0

Ans 22. line 1:  $j \leq n$ line 2:  $k \leq j$ Ans 23.  $Q[j] \equiv Q[k]$ Ans 24.  $\text{abs}(j - Q[j]) = \text{abs}(k - Q[k])$



Ans 25  $k == n$

Ans 26 ! capture (Q, k)

Ans 27 search (Q, ~~k~~, n);

Ans 28 2 1 0 3

Ans 29 1-0

Ans 30 0

Ans 31 0

Ans 32 0

Ans 33 20

Ans 34 line 1: for (int i=0; i<100; i++) s[i].id=0

Ans 35 line 2: s[num\_s].id = sid

line 3: num\_s = num\_s + 1

line 4: return true

Ans 36 line 5: s[i].id = s[i+1].id

line 6: s[num\_s-1].id = 0

line 7: num\_s = num\_s - 1

line 8: return true

Ans 37 1 3 5 2 6

Ans 38 4

(4)

Date .....

Ans 39 line 1:  $\text{node} \rightarrow \text{next} = \text{top\_ptr}; \text{top\_ptr} = \text{node};$

Ans 40 line 2:  $\text{top\_ptr} = \text{NULL};$

Ans 41 Undefined behaviour in some cases

Ans 42 line 3:  $\text{temp} \cdot \text{top\_ptr} = \text{top\_ptr} \rightarrow \text{next};$

line 4:  $\text{temp} \cdot \text{size} = \text{size} - 1;$

line 5:  $\text{return temp} \cdot \text{get}(n-1);$

Ans 43 Leads to compilation error. To remove it only line 7 needs to be modified.

—————x—————x—————x—————