Test Summary

 No. of Sections: 1 No. of Questions: 3

• Total Duration: 30 min

Section 1 - Coding Proficiency 4

Section Summary

• No. of Questions: 3

• Duration: 30 min

Additional Instructions:

None

Q1. **ESSAY WRITING**

Write a response explaining the pros and cons of the arms race. Do the benefits outweigh the risks? Provide examples.

Directions

In the nuclear age, the production and development of weaponry challenge the very existence of humankind. How useful are weapons? Do the benefits outweigh the risks?

Keywords

Q2. **Reverse the String**

Write a program to reverse the string

Input Format

Input contains the string

Output Format

print the altered string

Constraints

1<=length <= 1000000

Sample Input **Sample Output**

Aesops fable of the Tortoise and the Hare. When a wolf

.slamina tserof eht lla gnitae si noil a .mih seveileb

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q3. **Target Value in 2D**

Find a target value in a two-dimensional matrix given the number of rows as rowCount and number of columns as columnCount, and return its coordinates. If the value didn't exist, the program had to return (-1,-1).

Input Format

Input contains rowCount, columnCount, values and the target value

Output Format

If the value didn't exist, print -1 -1 else print its coordinates

Constraints

1 ≤ array_size ≤ 1000

Sample Input **Sample Output**

1 2 3 4

3 4

5 6 7 8

(1,2)

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Answer Key & Solution

Section 1 - Coding Proficiency 4

Q1 Sample Essay

No Essay

Keywords

NUCLEAR AGE, PRODUCTION, DEVELOPMENT, WEAPONRY, CHALLENGE, EXISTENCE, HUMANKIND, USEFUL, WEAPONS, BENEFITS, OUTWEIGH, RISKS,

Q2 **Test Case**

Input Output

Little readers learn to overcome bad habits with

naM dlO esiW ehT htiw stibah dab emocrevo ot nrae

Weightage - 5

Input Output

.slamina tserof eht lla gnitae si noil a .mih sev Little readers learn to overcome bad habits with

Weightage - 10

Input Output

India Gate is without a doubt one of the most red ti no devrac srytram naidnI eht fo eman htiw thgi

Weightage - 10

Input Output

Rich history and gold gilded exterior are the hig elpmet nedloG sa eman a ti denrae taht kool a ti

Weightage - 10

Input Output

The monument Hawa Mahal, was built Maharaja Sawai 404 This 16th century Charminar monument in Hyder

405 Meenakshi Temple is said to have the finest

rehto eht yb nees eb ot gnivah tuohtiw dlrow edis

Weightage - 10

Input Output rehto eht yb nees eb ot gnivah tuohtiw dlrow edis Meenakshi Temple is said to have the finest India

Weightage - 10

Output Input

elpmet nedloG sa eman a ti denrae taht kool a ti

The lower level of the temple is adorned with mot

Weightage - 10

Input Output

rewop gnilaeh evah ot dias si taht dnop suomaf a

Built by Arjan Sahib with help of Baba Budha Ji,

Weightage - 10

Input Output

msiruot saidnI ni ecnatropmi taerg a deniag sah e Rich history and gold gilded exterior are the hig

Weightage - 10

Input Output

children not to underestimate themselves.a man tri .tac a eucser ot seirt nam a.sevlesmeht etamitsere

Weightage - 5

Input **Output**

yrtnuoc eht fo serutcurts elbazingocer tsom eht fo India Gate stands 42m tall in height with name of

Weightage - 10

Sample Output Sample Input

Aesops fable of the Tortoise and the Hare. When a .slamina tserof eht lla gnitae si noil a .mih sev

Solution

<pre>#include <stdio.h></stdio.h></pre>	#include	<stdio.h></stdio.h>
<pre>#include <string.h></string.h></pre>	#include	<string.h></string.h>
<pre>#include <math.h></math.h></pre>	#include	<math.h></math.h>
<pre>#include <stdlib.h></stdlib.h></pre>	#include	<stdlib.h></stdlib.h>
<pre>#include <malloc.h></malloc.h></pre>	#include	<malloc.h></malloc.h>

```
int main()
int main()
 {
    char temp;
                                                char temp;
                                                char str[1000];
    char str[1000];
    int length,start=0,end,test,ctr;
                                                int length,start=0,end,test,ctr;
    //for(ctr=1;ctr<=test;ctr++)</pre>
                                                //for(ctr=1;ctr<=test;ctr++)</pre>
    //{
                                                //{
    scanf("%[^\n]s",str);
                                                scanf("%[^\n]s",str);
        start=0;
                                                    start=0;
  //printf("%s",str);
                                              //printf("%s",str);
  end=strlen(str)-1;
                                              end=strlen(str)-1;
    while(start<end)</pre>
                                                while(start<end)</pre>
    {
                                                {
        temp=str[start];
                                                    temp=str[start];
        str[start]=str[end];
                                                    str[start]=str[end];
        str[end]=temp;
                                                    str[end]=temp;
        start++;
                                                    start++;
        end--;
                                                    end--;
    }
                                                }
    printf("%s",str);
                                                printf("%s",str);
    //free(str);
                                                //free(str);
   // }
                                               // }
    return 0;
                                                return 0;
}
```

Q3 Test Case

Input Output

```
3 3
0 1 0
1 0 1
```

Weightage - 10

Input Output

```
5 5
45 23 57 32 79
78 87 2 44 93
4 0 3 34 13
```

Weightage - 10

Input Output

```
5 4
12 90 23 89
34 78 45 67
```

Weightage - 10

Input Output

```
10 10
940 1597 1843 3741 5029 5626 6106 6437 7112 7248
783 1065 2044 3519 5200 5346 7581 8212 9612 993
```

Solution

1 2 3 4 5 6 7 8

```
#include<stdio.h>
                                                 #include<stdio.h>
int main()
                                                 int main()
{
   int arr[1000][1000];
                                                    int arr[1000][1000];
   int row,col,rSize,cSize,searchValue;
                                                    int row,col,rSize,cSize,searchValue;
   scanf("%d %d",&rSize,&cSize);
                                                    scanf("%d %d",&rSize,&cSize);
   for( row = 0 ; row < rSize ; row++)</pre>
                                                    for( row = 0 ; row < rSize ; row++)</pre>
    for(col = 0 ; col < cSize ; col++)</pre>
                                                     for(col = 0 ; col < cSize ; col++)</pre>
          scanf("%d",&arr[row][col]);
                                                            scanf("%d",&arr[row][col]);
   scanf("%d",&searchValue);
                                                    scanf("%d",&searchValue);
   for( row = 0 ; row < rSize ; row++)</pre>
                                                    for( row = 0 ; row < rSize ; row++)</pre>
     for(col = 0 ; col < cSize ; col++)</pre>
                                                      for(col = 0 ; col < cSize ; col++)</pre>
                                                       {
     {
         if(arr[row][col] == searchValue)
                                                           if(arr[row][col] == searchValue)
              printf("(%d,%d)",row,col);
                                                                printf("(%d,%d)",row,col);
              break;
                                                                break;
                                                       }
     if(col <cSize) break;</pre>
                                                       if(col <cSize) break;</pre>
  if(row == rSize)
                                                   if(row == rSize)
      printf("(-1,-1)");
                                                       printf("(-1,-1)");
                                                  return 0;
 return 0;
}
```

