

17. (b) Test 17

Test Summary

- No. of Sections: 2
- No. of Questions: 3
- Total Duration: 45 min

Section 1 - Coding Proficiency

Section Summary

- No. of Questions: 2
- Duration: 30 min

Additional Instructions:

None

Q1.

**Pattern**

Pattern Printing

Input: n=3

3 3 3

3 1 3

3 2 3

Input: n=4

4 4 4 4

4 4 1 4

4 4 2 4

4 4 3 4.

Input Format

Input contains n

Output Format

Print the pattern

Constraints

1<=n<=50

Sample Input

Sample Output

3	333 313 323
---	-------------------

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

Q2.

**String Rotation**

A Program to check if strings are rotations of each other or not

Given a string s1 and a string s2, write a programt to say whether s2 is a rotation of s1?

(eg given s1 = ABCD and s2 = CDAB, return 1, given s1 = ABCD, and s2 = ACBD , return -1)

Input Format

Input contains two strings

Output Format

Print 1 if two string are rotation of each other else -1

Constraints

1<=string\_length<=1000

Sample Input

Sample Output



sample mplase	-1
------------------	----

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

Section 2 - Essay Writing

Section Summary

- No. of Questions: 1
- Duration: 15 min

Additional Instructions:

None

Q1. Essay Writing

"Do u agree that younger people should not teach older people with example"

Directions

Write an essay for the given topics

Keywords



Answer Key & Solution

Section 1 - Coding Proficiency

Q1

Test Case

Input

Output

4

4444  
4414  
4424  
4434

Weightage - 5

Input

Output

6

666666  
666166  
666266  
666366

Weightage - 5

Input

Output

10

101010101010101010  
1010101010110101010  
1010101010210101010  
1010101010310101010

Weightage - 10

Input

Output

15

151515151515151515151515151515  
1515151515151511515151515151515  
1515151515151521515151515151515  
1515151515151531515151515151515

Weightage - 10

Input

Output

13

131313131313131313131313131313  
1313131313131131313131313131313  
1313131313132131313131313131313  
1313131313133131313131313131313

Weightage - 10

Input

Output

17

17171717171717171717171717171717  
171717171717171717117171717171717  
171717171717171717217171717171717  
171717171717171717317171717171717

Weightage - 10

Input

Output

16

16161616161616161616161616161616  
161616161616161611616161616161616  
161616161616161621616161616161616

Weightage - 10

**weigntage - 10**

## Input

## Output

18

18181818181818181818181818181818  
18181818181818181818181818181818  
181818181818181818182181818181818  
181818181818181818182181818181818

**Weightage - 10**

## Input

## Output

20

20  
20202020202020202020201202020202020202020  
20202020202020202020202202020202020202020  
20202020202020202020202202020202020202020

**Weightage - 10**

## Input

## Output

25

25  
25252525252525252525252512525252525252525252525  
25  
25

**Weightage - 10**

## Input

## Output

50

505  
501  
502

**Weightage - 10**

### Sample Input

### Sample Output

3

333  
313  
323

### Solution

```
#include<stdio.h>
int main()
{
int N, row, col,mid, dummy=1;
scanf("%d",&N);
for(col = 0; col < N; col++)
printf("%d", N);
    for(row = 1,printf("\n"); row < N; row++, printf("\n"))
    {
        mid = N /2;
        for(col = 0; col < N; col++)
            if(col==mid)
                printf("%d", dummy++);
            else
                printf("%d", N);

    }
}
```

```
#include<stdio.h>
int main()
{
int N, row, col,mid, dummy=1;
scanf("%d",&N);
for(col = 0; col < N; col++)
printf("%d", N);
    for(row = 1,printf("\n"); row < N; row++, printf("\n"))
    {
        mid = N /2;
        for(col = 0; col < N; col++)
            if(col==mid)
                printf("%d", dummy++);
            else
                printf("%d", N);
    }
}
```

Q2 **Test Case**

Input

Output

sample  
lesamp

1

Weightage - 5

Input

Output

qpcrkjnrtmkwqdmzrdxt  
dxtqpcrkjnrtmkwqdmzr

1

Weightage - 5

Input

Output

ciqhugfuqfxxerzxcctbng  
gfuqfxxerzxciqhuctbng

-1

Weightage - 10

Input

Output

jqbtymyekhcqrywdnwan  
ekhcqrywdnwan

-1

Weightage - 10

Input

Output

prvqfidxxynfcraghew  
prvqfidxxynfcraghew

1



Weightage - 10

Input

Output

utryayzfckwauuperhhdjfedvgbkgrtfidaaqmhxgvunewvcti  
hxgvunewvctiutryayzfckwauuperhhdjfedvgbkgrtfidaaqm

1

Weightage - 10

Input

Output

kwqtyrjvdagnbkbdvzwznuitkdwkcwqxvnmzeaxbhyguqpeapy  
kwqtyrjvdagnbkuqpeapybdvzwznuitkdwkcwqxvnmzeaxbhyg

-1

Weightage - 10

Input

Output

bkevzrytkwpaqauvcqnudapyyywpwhpvdbbaeunjkguxkzyqmj  
ezhatatwxunzqviutykakmdudjjxvqzwjiyeapyyhtuevkzfpkw

-1

Weightage - 10

Input

Output

uppdhguuvgrjjijicdfbayvkuepbpadvhyncgakvjwhhrmnybmcg  
ecxqmbmzmxwuaznfwpixntyrgmphhnuyeabezkpmyafcxfjwpp

-1

Weightage - 10

Input

Output

urnezdpzwwbmceuwpcpueadzmmxnzizjekxfmbnjfnqegabzkznr  
nrhyxnfdtwiydygdzmczhnxuvgymphevfbeddixtrjfrqbpur

1

Weightage - 10

Input

Output

kghpwxfgmvpkwdjqpxhwuxbargmcczykfwfhfvztcjujqfckrv  
kghpwxfgmvpkwdjqpxhwuxbargmcczykfwfhfvztcjujqfckrv

-1

Weightage - 10

Sample Input

Sample Output

sample  
mplase

-1

Solution



```

#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>
int mystrcmp(char* str1, char* str2)
{
    int index,diff;
    for(index=0 ; str1[index]&&str2[index] ; index++)
    {
        if(str1[index]!=str2[index])
            break;
    }
    diff = str1[index]-str2[index];
    if(diff>0)
        return 1;
    else if(diff<0)
        return -1;
    return 0;
}
int mystrlen(char *str)
{
    int index;
    for(index=0 ; str[index] ; index++);
    return index;
}
int main()
{
    char str1[100],str2[100],safe;
    int len1, len2, shift, diff;
    scanf(" %[^\\n]s",str1);
    scanf(" %[^\\n]s",str2);
    // printf("%s\\n",str1);
    //printf("%s",str2);
    len1 = mystrlen(str1);
    len2 = mystrlen(str2);
    diff = mystrcmp(str1, str2);
    if(diff==0)
        printf("%d",1);
    else
    {
        if(len1==len2)
        {
            while(len2)
            {
                safe = str1[len1-1];
                for(shift=len1-1 ; shift!=0 ; shift--)
                    str1[shift] = str1[shift-1];
                str1[shift] = safe;
                diff = mystrcmp(str1, str2);
                if(diff==0)
                    break;
                len2--;
            }
            if(diff==0)
                printf("%d",1);
            else
                printf("%d",-1);
        }
        else
            printf("%d",-1);
    }
    return 0;
}

```

```

#include <stdio.h>

```

```

#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>
int mystrcmp(char* str1, char* str2)
{
    int index,diff;
    for(index=0 ; str1[index]&&str2[index] ; index++)
    {
        if(str1[index]!=str2[index])
            break;
    }
    diff = str1[index]-str2[index];
    if(diff>0)
        return 1;
    else if(diff<0)
        return -1;
    return 0;
}
int mystrlen(char *str)
{
    int index;
    for(index=0 ; str[index] ; index++);
    return index;
}
int main()
{
    char str1[100],str2[100],safe;
    int len1, len2, shift, diff;
    scanf(" %[^\\n]s",str1);
    scanf(" %[^\\n]s",str2);
    // printf("%s\\n",str1);
    //printf("%s",str2);
    len1 = mystrlen(str1);
    len2 = mystrlen(str2);
    diff = mystrcmp(str1, str2);
    if(diff==0)
        printf("%d",1);
    else
    {
        if(len1==len2)
        {
            while(len2)
            {
                safe = str1[len1-1];
                for(shift=len1-1 ; shift!=0 ; shift--)
                    str1[shift] = str1[shift-1];
                str1[shift] = safe;
                diff = mystrcmp(str1, str2);
                if(diff==0)
                    break;
                len2--;
            }
            if(diff==0)
                printf("%d",1);
            else
                printf("%d",-1);
        }
        else
            printf("%d",-1);
    }
    return 0;
}

```





Sample Essay

No Essay

**Keywords**

young, old, agree, teach, not,

