

SIMATS C IDE

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YARAM HEMANTH KUMAR REDDY
192211361

Questions
CEQ1.

Write a program to reverse a word using loop(not to use inbuilt functions).

Sample Input:
String: TEMPLE
Sample Output:
Reverse String: ELPMET

1. SIGN UP
2. AT-LEAST
3. 1245
4. l@#\$\$
5. 145*999=144855

CEQ1
CEQ2
CEQ3
CEQ4
CEQ5
CEQ6
CEQ7
CEQ8

Run Save Logout

```
1. #include <stdio.h>
2.
3. int main(){
4. char word[100];
5. int length, i;

printf("Enter a word: ");
scanf("%s", word);
length = strlen(word);
for(i = length - 1; i >= 0; i--) {
printf("%c", word[i]);
}

return 0;
```

Your Input Goes Here....!!!

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Questions
CEQ10.

Write a program to print the numbers from M to N by skipping K numbers in between?

Sample Input:
M = 50
N = 100
K = 7
Sample Output:
50, 58, 66, 74, ...

Test Cases

1. M = 15, N = 05, K = 02
2. M = 25, N = 50, K = 04
3. M = 15, N = 100, K = -02
4. M = 0, N = 0, K = 2
5. M = 200, N = 200, K = 50

CEQ1
CEQ2
CEQ3
CEQ4
CEQ5
CEQ6
CEQ7
CEQ8
CEQ9
CEQ10
CEQ11
CEQ12
CEQ13
CEQ14
CEQ15
CEQ16
CEQ17
CEQ18

Run Save Logout

```
1. #include<stdio.h>
2.
3. int main() {
4. int m, n, k, i;
5.

printf("Enter the value of M;");
scanf("%d",&m);
printf("Enter the value of N;");
scanf("%d",&n);
printf("Enter the value of K;");
scanf("%d",&k);

for (i = m; i <= n; i += k + 1) {
printf("%d ", i);
}

return 0;
}
```

50
100
7

<pre>ExecutionFolder/192211361.c: In function main:

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Questions
CEQ11.

Write a program for matrix addition?

Sample Input:
Mat1 = 1 2
5 3
Mat2 = 2 3
4 1

Sample Output:
Mat Sum = 3 5
9 4

Test Cases

CEQ11
CEQ12
CEQ13
CEQ14
CEQ15
CEQ16
CEQ17
CEQ18

Run Save Logout

```
#include <stdio.h>

int main() {
    int mat1[2][2]={{1,2},{5,3}};
    int rows = 2;
    int cols =2;

    int mat_sum[rows][cols];

    //one-liner nested loop to add matrices
    for (int i=0; i< rows; i++, printf("\n")) for (int j=0; j< cols; j++, printf("")) printf("%d\t", mat1[i][j]+ mat2[i][j]);

    return 0;
}
```

Your Input Goes Here....!!!

<pre>ExecutionFolder/192211361.c: In function 'main':

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Questions
CEQ12.

Write a program to print rectangle symbol pattern.

Get the symbol as input from user.

Test Cases

CEQ11
CEQ12
CEQ13
CEQ14
CEQ15
CEQ16
CEQ17
CEQ18

Run Save Logout

```
#includes<stdio.h>

int main() {
    int rows, cols , i, j;

    printf("Entre rows and columns of rectangle\n");
    scanf("%d %d", &rows, &cols);

    /* Row interator for loop */
    for(i = 0; i < rows ; i++){
        /* column iterator for loop */
        for( j = 0; i < cols; j++){
            printf("**");
        }
        printf ("\n");
    }
    return 0;
}
```

Your Input Goes Here....!!!

<pre>ExecutionFolder/192211361.c:1:2:
error: invalid preprocessing directive

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Questions

CEQ15.

Write a program to print the following pattern

Sample Input:
Enter the number to be printed: 1
Max Number of time printed: 3
1
1 1
1 1 1
1 1
1

Test Cases

CEQ15
CEQ16
CEQ17
CEQ18
CEQ19
CEQ13
CEQ14
CEQ15
CEQ16
CEQ17

C

Run

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Logout

```
1. #include <stdio.h>
2.
3. int main() {
4.     int num, max_times;
5.
6.     // Get input from user
7.
8.     printf("Enter the number to be printed: ");
9.     scanf("%d", &num);
10.    printf("Max" Number of times printed: ");
11.    scanf("%d", &max_times);
12.
13.    // Loop to print the pattern
14.    for (int i = 1; i < 2* max_times; i++) {
15.        if (i <= max_times) {
16.            printf("%d ", i);
17.        } else {
18.            printf("%d ", max_times - (i - max_times));
19.        }
20.        printf("\n");
21.    }
22. }
```

1

3

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Questions

CEQ16.

Write a program to print the special characters separately and print number of special characters in the line?

Please Enter your Own String : abcl@ 12 cd 1212

Total Number of Alphabets in this String : 5
Total Number of Digits in this String : 6
Total Number of Special Characters in this String : 5

Test Cases

CEQ15
CEQ16
CEQ17
CEQ18
CEQ19
CEQ13
CEQ14
CEQ15
CEQ16
CEQ17

C

Run

Save

Logout

```
1. #include <stdio.h>
2. #include <ctype.h>
3.
4. int main() {
5.     char string[100];
6.     int special_count = 0;
7.
8.     // Get input string from user
9.     printf("please Entre your Own String; ");
10.    fgets(string, 100, stdin);
11.
12.    //Loop through each character in the string
13.    for (int i = 0; string[i] != '\0'; i++) {
14.        // Check if character is a special character
15.        if (!isalnum(string[i]) && string[i] != ' ') {
16.            printf("%c ", string[i]);
17.            special_count++;
18.        }
19.    }
20.    printf("\n");
21.    printf("Total Number of Special Characters: %d", special_count);
22. }
```

5

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Questions

CEQ17.

Write a program to print all the composite numbers between a and b?

Sample Input:
A = 12
B = 19

Sample Output:
14, 15, 16, 18

Test Cases

1. A = 11, B = 11
2. A = 20, B = 10
3. A = 0, B = 0
4. A = -5, B = 5
5. A = 7, B = -12

C

Run

Save

Logout

```
1. #include<stdio.h>
2. int main()
3. {
4.     int i;
5.     for(i=12;i<19;i++)
6.     {
7.         printf("%d\n",i);
8.     }
9.     return 0;
10. }
```

Your Input Goes Here....!!!

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Search

ENG IN

14:02

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Questions

CEQ18.

Write a program to print the Inverted Full Pyramid pattern?

Test Cases

C

Run

Save

Logout

```
1. #include<stdio.h>
2. int main()
3. {
4.     int n, i, j;
5.     printf("Enter the number of rows:");
6.     scanf("%d", &n);
7.     for (i = n; i >= 1; i--)
8.     {
9.         for (j = 1; j <= n - i; j++)
10.         {
11.             printf(" ");
12.         }
13.         for (j = 1; j <= 2*i-1; j++)
14.         {
15.             printf("*");
16.         }
17.         printf("\n");
18.     }
```

5

Enter the number of rows:*****

Search

ENG IN

14:02

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