

מטלה 4 – לולאות ומשפט Switch

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שאלה 1

```
#include <stdio.h>
int main()
{
    int counter1 = 0, counter2 = 0, counter3 = 0,
        counter4 = 0;
    char tav = 0;
    printf("Please insert characteurs. To finish press
           Q\n");
    while (tav != 'Q')
    {
        scanf(" %c", &tav);
        switch (tav)
        {
            case '/':
                counter1++;
                break;
            case '*':
                counter2++;
                break;
            case '-':
                counter3++;
                break;
            case '+':
                counter4++;
                break;
            default:
                break;
        }
    }
    printf("/ appears %d times\n", counter1);
    printf("* appears %d times\n", counter2);
    printf("- apperas %d times\n", counter3);
    printf("+ appears %d times\n", counter4);
}
```

```
Please insert characteurs. To finish press Q
/
/
*
*
*
6
y
)
-
+
=
Q
/ appears 2 times
* appears 3 times
- apperas 1 times
+ appears 1 times
Program ended with exit code: 0
```

```

#include <stdio.h>
int main()
{
    int counter1 = 0, counter2 = 0, counter3 = 0,
    counter4 = 0;
    char tav = 0;
    printf("Please insert characteurs. To finish
    press Q\n");
    while (tav != 'Q')
    {
        scanf(" %c", &tav);
        switch (tav)
        {
            case '/':
                counter1++;
                break;
            case '*':
                counter2++;
                break;
            case '-':
                counter3++;
                break;
            case '+':
                counter4++;
                break;
            default:
                break;
        }
    }
    printf("/ appears %d times\n", counter1);
    printf("* appears %d times\n", counter2);
    printf("- apperas %d times\n", counter3);
    printf("+ appears %d times\n", counter4);
}

```

```

Insert a number1:
12213
Insert a number2:
89
89
Program ended with exit code: 0|

```

```
#include <stdio.h>
int main()
{
    int number, number1 = 0, maxdigit = 0, mindigit = 10;
    printf("Insert a number:\n");
    scanf("%d", &number);
    number1 = number;
    while (number1 != 0)
    {
        if(maxdigit < number1 % 10)
        {
            maxdigit = number1 % 10;
        }
        if (mindigit > number1 % 10)
        {
            mindigit = number1 % 10;
        }
        number1 = number1 / 10;
    }
    for (int i = mindigit; i <= maxdigit; i++)
    {
        printf("%d", i);
    }
    printf("\n");
}
```

Insert a number:

7526224

234567

Program ended with exit code: 0

```
#include <stdio.h>
int main()
{
    int num = 0;
    while (num <= 0)
    {
        printf("Please insert a positive number of
the board size:\n");
        scanf("%d", &num);
    }
    for (int i = 0; i < num; i++)
    {
        for (int j = 0; j < num; j++)
        {
            if ((i + j) % 2 == 0)
            {
                printf("X");
            }
            else
            {
                printf("O");
            }
        }
        printf("\n");
    }
}
```

```
Please insert a positive number of the board size:
5
XOXOX
OXOXO
XOXOX
OXOXO
XOXOX
Program ended with exit code: 0
```