



```
Console.WriteLine("Enter a number, positive only");
int number = int.Parse(Console.ReadLine());
int digits = number;
int count = 1;
while (digits > 0)
{
    digits /= 10;
    if (digits > 0) count++;
}

int newnum = 0;

for (int i = count; i >= 0; i--)
{
    if (i%2!=0)
    {
        if (i != count) newnum *=10;
        newnum +=number % 10;
    }
    number/=10;
}

int finalnum = 0;
while (newnum > 0)
{
    finalnum = finalnum + (newnum % 10);
    if (newnum >10)finalnum *= 10;
    newnum /=10;
}

Console.WriteLine(finalnum);
```

```

Console.WriteLine("enter a number and number of reps");
int number=int.Parse(Console.ReadLine());
int reps=int.Parse(Console.ReadLine());

long newnum = 0;

for (int i = 0; i < reps;)
{
    newnum += number;
    i++;
    if (i == reps) break;
    newnum *= 1000;
}
Console.WriteLine(newnum);

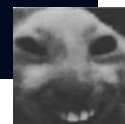
```

3

```

Console.WriteLine("enter number");
int core=int.Parse(Console.ReadLine());
int tempcore = 1;
core+= 1;
for (int rows = core*2-1; rows > 0; rows--)
{
    for (int spaces=core-tempcore;spaces>0;spaces--)
    {
        Console.Write(" ");
    }
    for (int digits=1;digits<tempcore;digits++)
    {
        Console.Write(digits);
    }
    for (int digits = tempcore-2; digits >0; digits--)
    {
        Console.Write(digits);
    }
    Console.WriteLine();
    if (rows >core)tempcore++;
    if (rows <= core) tempcore--;
}

```



```

Console.WriteLine("enter base size,must be even number");
int based = int.Parse(Console.ReadLine());

for (int loop = 0; loop < 3; loop++)
{
    int space = 0;
    for (int i = 0; i < based / 2; i++)
    {
        for (int j = 0; j < i; j++)
        {
            Console.Write(' ');
        }
        Console.Write("*");
        Console.WriteLine();
    }

    for (int i = based / 2; i > 0; i--)
    {
        for (int j = i - 1; j > 0; j--)
        {
            Console.Write(" ");
        }
        Console.Write("*");

        for (int k = 0; k < space; k++)
        {
            Console.Write(" ");
        }
        space += 2;
        if (space == 0) space = 2;
    }
}

```

```

        Console.Write("*");

        Console.WriteLine();

        if (i == 2) break;
    }
    for (int a = 0; a < based; a++)
    {
        Console.Write("*");
    }
    Console.WriteLine();
}
for (int a = 0; a < based; a++)
{
    for (int b = 0; b < (based - 2) / 2; b++)
    {
        Console.Write(" ");
    }

    Console.Write("*");
    Console.Write("*");
    Console.WriteLine();
}

```

5

שאלה לא נורמלית באמת



D:\CodePC\loop_summary\5\Program.cs

1

```

1 namespace _5
2 {
3     internal class Program
4     {
5         static void Main(string[] args)
6         {
7             bool check = false;
8             long num1 = 0, num2 = 0, bignum = 0, smallnum = 0,
9                 inverted_bignum = 0, dig1 = 0, dig2 = 0;
10
11             while (check == false)
12             {
13                 dig1 = 0; dig2 = 0;
14                 Console.WriteLine("enter one long number and one short
15                     number");
16                 num1 = long.Parse(Console.ReadLine());
17                 num2 = long.Parse(Console.ReadLine());
18                 long dummy1 = num1, dummy2 = num2;
19
20                 while (dummy1 > 0)

```

```

15         num2 = long.Parse(Console.ReadLine());
16         long dummy1 = num1, dummy2 = num2;
17
18         while (dummy1 > 0)
19         {
20             dummy1 /= 10;
21             dig1++;
22         }
23         while (dummy2 > 0)
24         {
25             dummy2 /= 10;
26             dig2++;
27         }
28
29         if (dig1 == dig2)
30         {
31             check = false;
32             Console.WriteLine("wrong input");
33             Console.ReadKey();
34             Console.Clear();
35         }
36         if (dig1 != dig2) check = true;
37     }
38
39     {
40
41         if (dig1 > dig2)
42         {
43             bignum = num1;
44             smallnum = num2;
45         }
46         if (dig2 > dig1)
47         {

```

```
48         bignum = num2;
49         smallnum = num1;
50     }
51 }
52
53
54 while (bignum > 0)
55 {
56
57     if (bignum % 10 == 0 && bignum > 0)
58     {
59         inverted_bignum *= 10;
60         bignum /= 10;
61     }
62     else
63     {
64
65         inverted_bignum = inverted_bignum + (bignum % 10);
66         bignum /= 10;
67         if (bignum > 0) inverted_bignum *= 10;
68     }
69 }
70
71 long inflated_bignum = 0;
72
73 while (inverted_bignum > 0)
74 {
75     if (inverted_bignum % 10 == 0)
76     {
77         inflated_bignum *= 10;
78     }
79     else
80     {
81         inflated_bignum += inverted_bignum % 10;
82         inflated_bignum *= 10;
83     }
84     inverted_bignum /= 10;
85     inflated_bignum *= 10;
86
87 }
88 while (inflated_bignum % 10 == 0)
89 {
90     inflated_bignum /= 10;
91 }
92
93 long inverted_smallnum = 0;
94
95 while (smallnum > 0)
96 {
```

```
97
98         if (smallnum % 10 == 0 && smallnum > 0)
99         {
100             inverted_smallnum *= 10;
101             smallnum /= 10;
102         }
103         else
104         {
105
106             inverted_smallnum = inverted_smallnum + (smallnum % 10);
107             smallnum /= 10;
108             if (smallnum > 0) inverted_smallnum *= 10;
109         }
110
111     }
112
113     long inflated_smallnum = 0;
114
115     while (inverted_smallnum > 0)
116     {
117         if (inverted_smallnum % 10 == 0)
118         {
119             inflated_smallnum *= 10;
120         }
121         else
122         {
123             inflated_smallnum += inverted_smallnum % 10;
124             inflated_smallnum *= 10;
125         }
126         inverted_smallnum /= 10;
127         inflated_smallnum *= 10;
128
129     }
130
131     while (inflated_smallnum % 10 == 0)
132     {
133         inflated_smallnum /= 10;
134     }
135
136     long counter_big = inflated_bignum, counter_small = inflated_smallnum;
137     int digicountbig = 0, digicountsmall = 0;
138
139     while (counter_big > 0)
140     {
141         counter_big/=10;
142         digicountbig++;
143     }
```

```
144     while (counter_small > 0)
145     {
146         counter_small/=10;
147         digicountsmall++;
148     }
149     while (digicountbig- digicountsmall>1)
150     {
151         inflated_smallnum *= 10;
152         digicountsmall++;
153     }
154
155     long final = inflated_smallnum + inflated_bignum;
156
157     Console.WriteLine($"{inflated_smallnum} + {inflated_bignum} = 
158                          {final}");
159
160
161     }
162 }
163 }
164
```



```

Console.WriteLine("enter uneven number");
int realbasis = int.Parse(Console.ReadLine());
int basis = realbasis;
basis = basis * 2 + 1;
bool number = true;

for (int i = 0; i < realbasis+1;i++)
{
    for (int j = 0; j < basis; j++)
    {
        Console.Write("*");
    }
    Console.WriteLine();
    if (i == realbasis)
        break;
    for (int j = 0; j < basis; j++)
    {
        if (j % 2 == 0)
        {
            Console.Write("*");
        }
        if (j % 2 == 1)
        {
            if (number == true) ...
            if (number == false) ...
        }
    }
    Console.WriteLine();
}

```