

```

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);

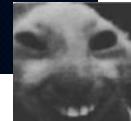
```

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.WriteLine("*");

        Console.WriteLine();

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

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

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

```

5

שאלה לא סופרת במאגר



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         while (check == false)
11         {
12             dig1 = 0; dig2 = 0;
13             Console.WriteLine("enter one long number and one short
14                 number");
15             num1 = long.Parse(Console.ReadLine());
16             num2 = long.Parse(Console.ReadLine());
17             long dummy1 = num1, dummy2 = num2;
18             while (dummy1 > 0)
19             {
20                 dig1 = dummy1 % 10;
21                 dummy1 = dummy1 / 10;
22                 inverted_bignum = inverted_bignum * 10 + dig1;
23             }
24             if (inverted_bignum == num2)
25             {
26                 check = true;
27             }
28             else
29             {
30                 Console.WriteLine("the numbers are not equal");
31             }
32         }
33     }
34 }
```

```
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     while (inflated_bignum % 10 == 0)
88     {
89         inflated_bignum /= 10;
90     }
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 %      ↵
107             10);
108         smallnum /= 10;
109         if (smallnum > 0) inverted_smallnum *= 10;
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 =      ↵
137     inflated_smallnum;
138 int digicountbig = 0, digicountsmall = 0;
139
140 while (counter_big > 0)
141 {
142     counter_big/=10;
143     digicountbig++;
144 }
```

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```
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();
}
```