**6 kyu**

**Lowest product of 4 consecutive numbers**

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Python

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Create a function that returns the lowest product of 4 **consecutive digits** in a number given as a string.

This should only work if the number has 4 digits or more. If not, return "Number is too small".

##Example

lowest\_product("123456789")--> 24 (1x2x3x4)

lowest\_product("35") --> "Number is too small"

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'''

Online Python Compiler.

Code, Compile, Run and Debug python program online.

Write your code in this editor and press "Run" button to execute it.

'''

def lowest\_product(input):

if('0' in input): return 0

if(len(input) < 4):

return "Number is too small"

prod = 1

for i in range(0, 4):

prod \*= int(str(input[i]))

min\_prod = prod

for i in range(0, len(input) - 4):

prod /= int(str(input[i]))

prod \*= int(str(input[i + 4]))

#print(prod)

min\_prod = int(min(min\_prod, prod))

#if(prod < min\_prod):

# min\_prod = prod

return min\_prod

s = "123456789"

print(lowest\_product(s))

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

static int lowest\_product( string input)

{

if (input.Length < 4 || input.Contains('0')) return 0;

int prod = 1;

for(int i =0; i<4; i++)

{

prod \*= int.Parse(input[i].ToString());

}

// Console.WriteLine(prod);

int min\_prod = prod;

string concat = input;

for(int i =0; i + 4 < input.Length; i++)

{

concat = concat.Remove(i, 1);

concat += input[i + 3];

prod /= int.Parse(input[i].ToString());

prod \*= int.Parse(input[i + 4].ToString());

min\_prod = Math.Min(min\_prod, prod);

}

// Console.WriteLine(concat);

return min\_prod;

}

static void Main(string[] args)

{

//Console.WriteLine( lowest\_product("98765432")); //120

Console.WriteLine(lowest\_product("123456789")); //120

//string concat = "12345";

//concat = concat.Remove(0, 1) ;

//Console.WriteLine(concat);

Console.ReadLine();

}

}

}