

# C# kalbos pagrindai

# Kintamieji

Kintamuosius naudojame aprašyti duomenis programoje:

```
public class BasicClass
{
    string name = "Lisa";
    int age = 8;
    bool isFromSpringfield = true;
    string[] boyfriends = { "Nelson", "Ralph Wiggum", "Luke Stetson" };
    float weight = 29.5F;
    double height = 1.09; // greater precision than float+
    decimal savings = 10.34M; //use for money
}
```

# Operacijos su duomenimis

```
int a = 6;  
int b = 5;  
int sum = a + b; // 6 + 5  
int subtraction = a - b; // 6 - 5  
float division = a / b; // 6 / 5  
int multiplication = a * b; // 6 * 5
```

# Kintamųjų palyginimas

```
int a = 6;  
int b = 5;  
bool compare = a < b; //true  
bool compare2 = a >= b; //true
```

== equals

!= not equals

< less than

<= less than or equal

> greater than

>= greater than or equal

# If sakiny's

↓

```
int age = 8;
bool isAdult;

if (age >= 18)
{
    isAdult = true;
} else
{
    isAdult = false;
}
```

# for ciklas

```
int[] arr = { 1, 2, 3, 4 };  
  
int sum = 0;  
  
// Loop over array  
for (int i = 0; i < arr.Length; i++)  
{  
    sum = sum + arr[i];  
}
```

## *Nested for loop in multidimensional array*

```
int[][] array = new int[3][];  
array[0] = new int[3] { 1, 1, 1 };  
array[0] = new int[3] { 1, 2, 4 };  
array[0] = new int[3] { 1, 3, 9 };  
  
for (int j = 0; j < array.Length; j += 1)  
{  
    for (int k = 0; k < array[j].Length; k += 1)  
    {  
        Console.Write(array[j][k]);  
    }  
}
```

A 3x3 grid representing a 2D array. The rows are indexed 0, 1, and 2 from top to bottom, indicated by a blue arrow labeled 'ROWS' pointing to the row indices. The columns are indexed 0, 1, and 2 from left to right, indicated by a blue arrow labeled 'COLUMNS' pointing to the column indices. The values in the grid are: Row 0: 1, 1, 1; Row 1: 1, 2, 4; Row 2: 1, 3, 9. The values are in green, and the indices are in blue.

[0]	1	1	1
[1]	1	2	4
[2]	1	3	9
	[0]	[1]	[2]