

# C# Tip



# USAGE

# OF

# MATH.CLAMP()

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# DEFINITION

**`math.clamp(x, y, z)`**

- **`x`** is the value you want to clamp
- **`y`** is the minimum value **`x`** can be
- **`z`** is the maximum value **`x`** can be

**`math.clamp()` is useful for  
keeping a number (**`x`**) in  
between **`y`** and **`z`** inclusive**



# USAGE

You're building a program that tracks the temperature of a room and adjusts the temperature automatically based on a set range.

To prevent damage to the heating or cooling system :

- Min set temperature 60°F
- Max set temperature 80°F



# CODE

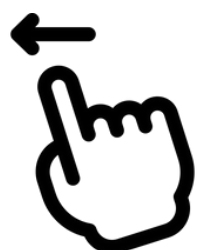


```
// Assumes this function retrieves the temperature reading  
  
double temperature = GetRoomTemperature();  
  
double minTemperature = 60.0;  
  
double maxTemperature = 80.0;  
  
double clampedTemperature = Math.Clamp(temperature,  
                                       minTemperature,  
                                       maxTemperature);
```

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