

# Algorithm complexity - Time

- Empirical Time



Constant

# x  
17  
17

Linear

n  
n

Quadratic

n<sup>2</sup>

Logarithmic

log n

f(size)

f(n)



Alg1 → eq1

Alg2 → eq2

categories

Count Steps

• Accessing or setting variables

pieces of arrays

t[0] = 5

t[0] = 5

• Math +, -, \*, /, %

• comparisons >, <, >=, <=, ==, !=, ||

• length of array, or string

