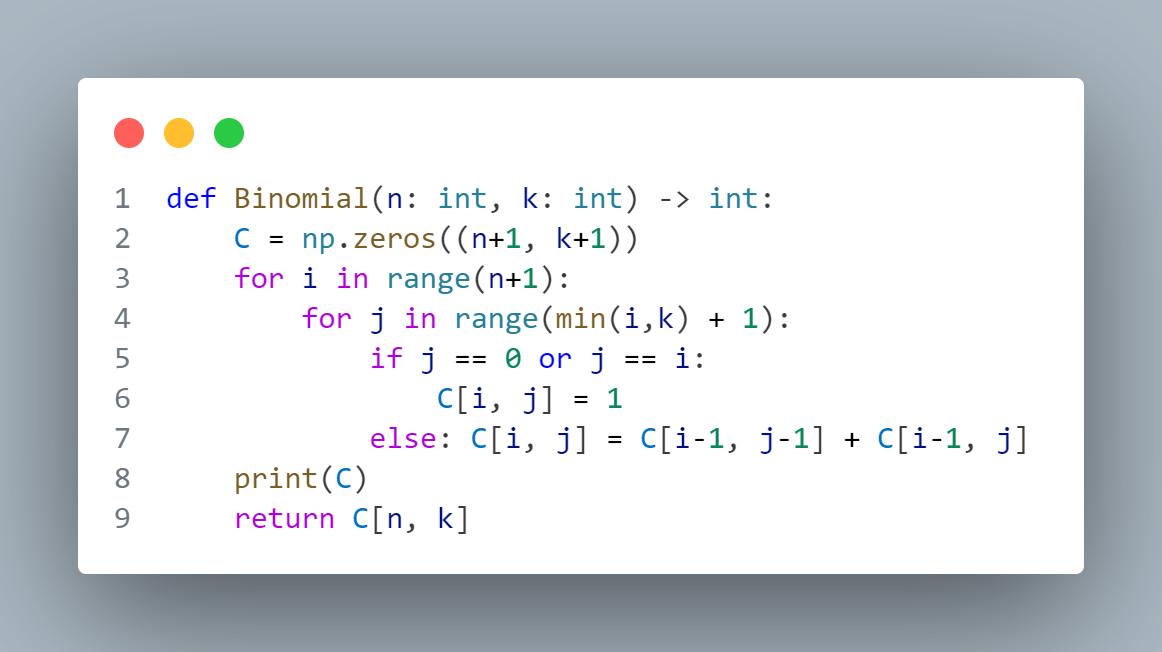
**DESIGN AND ANALYSIS OF ALGORITHMS**

**Ex1**

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**Analysis:**

1/ Basic operation: in line 6,7

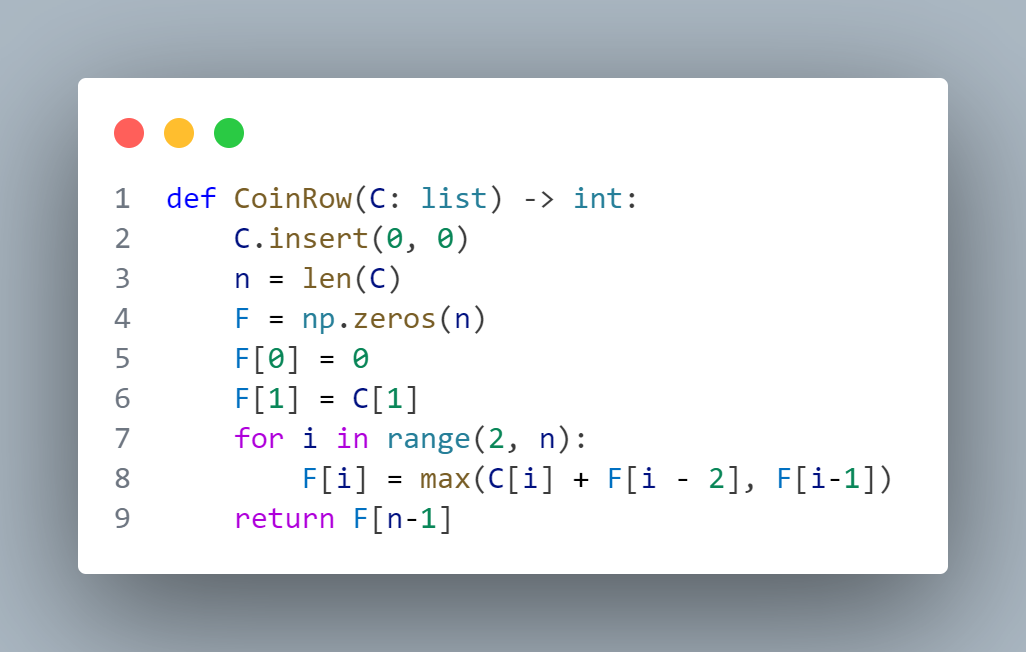
2/ Worst case: as average case

3/Counting the number of basic operations in the worst case:

**Time efficiency**

***T*(*n*) = ∈ Θ()**

**Ex2**



**Analysis:**

1/ Basic operation: in line 8

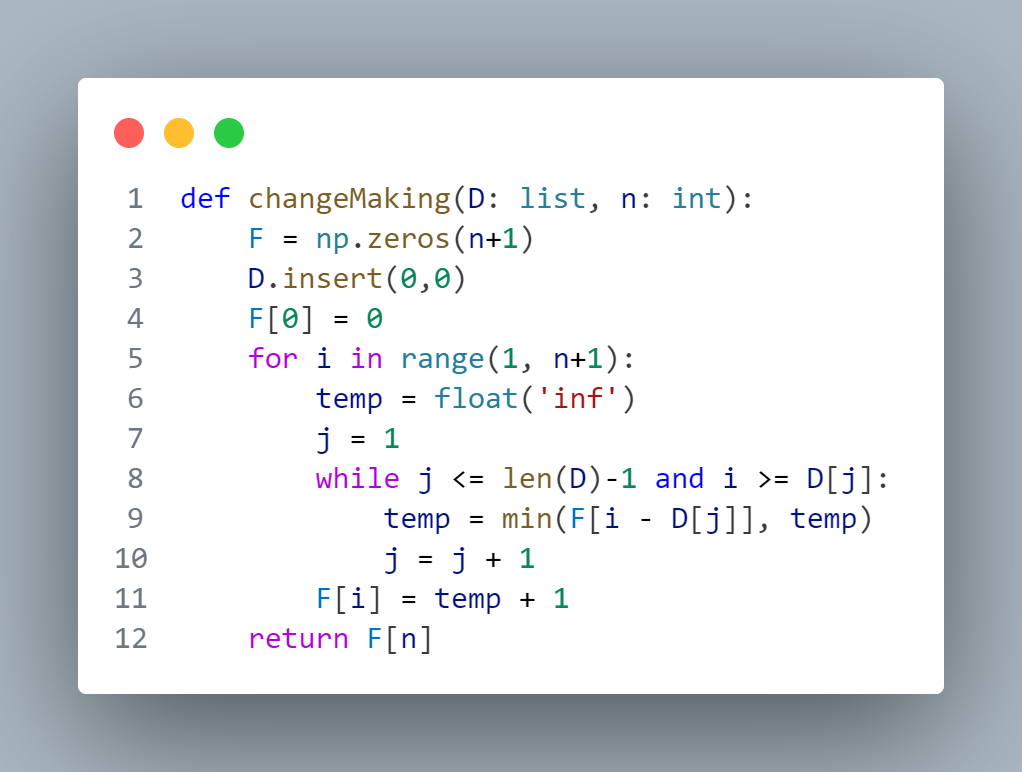
2/ Worst case: as average case

3/Counting the number of basic operations in the worst case:

**Time efficiency**

***T*(*n*) = ∈ Θ()**

**Ex3**

****

**Analysis:**

1/ Basic operation: in line 8

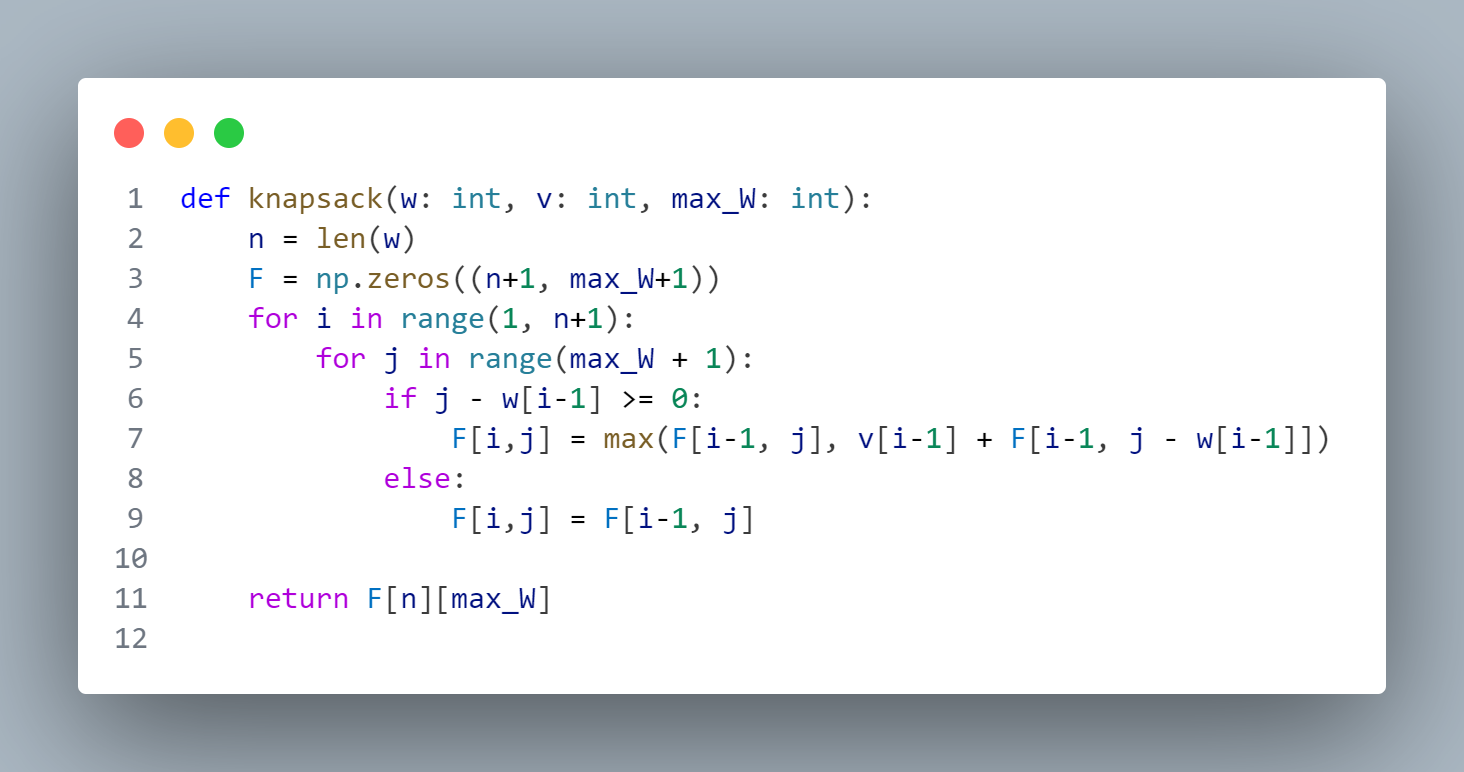
2/ Worst case: as average case

3/Counting the number of basic operations in the worst case:

**Time efficiency**

***T*(*n*) = ∈ Θ( )**

**Ex4**

****

**Analysis:**

1/ Basic operation: in line 7,9

2/ Worst case: as average case

3/Counting the number of basic operations in the worst case:

**Time efficiency**

***T*(*n*) = ∈ Θ( )**