1 Book 8.4: Resource Allocation

1.1 Mathematical Formulation

Given an input of

1.2 Solution

Important Confusing Data Structures:

- type **name** :   explaination

  The main functionality of

Algorithm 1 Method
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   procedure NAME(..,..,)

1.3 Correctness

Proposition 1.
   propose

Proof.
   Using the fact that □

1.4 Analysis

For the following analysis, we will say that..

Proposition 2. *The space complexity of this algorithm is $O(..)$*

Proof.
   This is due to the fact that all of our data is stored in data structures:

- <u>cause</u>: reason $\implies$ *complexity*

$$\text{Giving us a space complexity of } \mathbf{O(..)}$$

□

Proposition 3. *The time complexity of this algorithm is $O(..)$*

Proof. This is the case because our algorithm...

$$\text{Giving us a time complexity of } \mathbf{O(..)}$$

□

1.5 An Example