· Union(SI: Set, S2: Set)—7 Set: Returns a new set that contains all elements that are in SI, in S2, or in both. Common elements should be included Intersection (SI: Set, S2: Set) - Set: Returns a new set that contains only the elements that are in both Stand S2 Difference (S1: Set, S2: Set) 7 Set: Returns a new set that contains the elements

in SI that are not in S2.

- There are many ariteria upon which we can judge a program, including:

 (1) Dees the program meet the original specifications of the task?

 (2) Dees it work correctly?

 (3) Does the program contain documentation that shows how to use it and how it works?
- (4) Does the program effectively use functions to create logical units? (5) Is the program's code readable?

6) Dees the pregram efficiently use primary and secondary storage?

7) Is the program's running time acceptable for the task?

Defn: The space complexity of a program is the amount of memory that of reeds to pun to complexion. The time complexity of a program is the amount of computer time that it needs to run to completion. I

· The space needed by a pregram is the sum of the following components: (1) Fixed space requirements: Do not depend on the number and size of the programs inputs and outputs. Includes the instruction space space needs to store the ade, space for simple variables, fixed-sized structured variables and constants.