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ALL



4. Monsoon Umbrellas

Umbrellas are available in different sizes that are each able to shelter a certain number of people. Given the number of people needing shelter and a list of umbrella sizes, determine the minimum number of umbrellas necessary to cover exactly the number of people given, and no more. If there is no combination that covers exactly that number of people, return -1.

Example

requirement = 5

sizes = [3, 5]

1 One umbrella can cover exactly 5 people, so the function should return 1.

Example

requirement = 6

sizes = [3, 5]

3 It is possible to use 2 umbrellas of size 3 to cover exactly 6 people, so the function should return 2.

Example

requirement = 7

sizes = [3, 5]

There is no combination of umbrellas that cover exactly 7 people, so the function should return -1.

Function Description

Complete the function *getUmbrellas* in the editor below.

getUmbrellas has the following parameter(s):

int requirement: the number of people to shelter

int sizes[n]: an array of umbrella sizes available

Returns: