

# **Department of Computer Science & Engineering**

#### LAB MANUAL

22CS025 - Algorithm Design & Implementation-5Sem-2022

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Course Name	22CS025 - Algorithm Design & Implementation-5Sem-2022	



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#### Aim: Count number of ways to cover a distance

Mr. Amit has a puzzle to solve. He needs your help. The puzzle is to find total number of ways to cover a distance of D steps where he can take on only 1,2,...,K steps in one go. For example, if D=3 & K=3, he can do it in 4 ways: {1+1+1, 1+2, 2+1, 3}, total 4 ways to complete 3 steps.

## **Input Format**

First Line will contain an integer D denoting the distance to be covered. Second Line will contain an integer K denoting the steps can be taken at most in one go.

#### **Output Format**

Print the total number of ways.

# **Sample Input**

3

# **Sample Output**

4

### **Solution:**

