

M03S01 [Arrays and Strings]: Exercise 07

CS110: Computing Lab
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Problem Description

An array A of n integers and a number k is given. Write a program to create the two subsets A_1 and A_2 of size k from the given array A such that the difference between sum of the elements of the two arrays is maximum. Program should output the following: Two arrays A_1 , A_2 , and the maximum difference.

Example 1:

Input $A = \{3, 5, 6, 4, 5\}$ $k = 2$

Expected Output: $A_1 = \{3,4\}$, $A_2 = \{5,6\}$, maximum difference = 4.