You will be given a list of integers, arr, and a single integer k. You must create an array of length k from elements of arr such that its unfairness is minimized. Call that array *arr'*. Unfairness of an array is calculated as Problem max(arr') - min(arr')Where: - max denotes the largest integer in arr'. - min denotes the smallest integer in arr'. Example arr = [1,4,7,2]k=2Pick any two elements, say arr' = [4, 7]. unfairness = max(4,7) - min(4,7) = 7 - 4 = 3Testing for all pairs, the solution [1,2] provides the minimum unfairness. **Note**: Integers in *arr* may not be unique. **Function Description** Complete the maxMin function in the editor below. maxMin has the following parameter(s): • int k: the number of elements to select • int arr[n]:: an array of integers Returns • int: the minimum possible unfairness Input Format The first line contains an integer n, the number of elements in array arr. The second line contains an integer k. Each of the next n lines contains an integer arr[i] where  $0 \leq i < n$ . Constraints  $2 \leq n \leq 10^5$  $2 \leq k \leq n$  $0 \leq arr[i] \leq 10^9$ Sample Input Sample Input #01 30 40 100 200 Sample Output Sample Output #01 Explanation

**Explanation #01** 

Here K=4; selecting the 4 integers 1,2,3,4, unfairness equals

Change Theme Language Python 3 **100** #!/bin/python3 import math import os import random import re import sys Complete the 'maxMin' function below. # The function is expected to return an INTEGER. # The function accepts following parameters: 14 # 1. INTEGER k # 2. INTEGER\_ARRAY arr 18  $\vee$  def maxMin(k, arr): arr.sort() result = float('inf') # -k because, otherwise we will get index out of bound # +1 because zero indexed array for idx in range(len(arr) -k + 1): 24 🗸 # idx +k because we want the max element of that subarray # idx +k and -1 because zero indexed arary result = min(result, arr[idx +k -1] - arr[idx]) 29 return result 34 Line: 31 Col: 5 Submit Code Run Code Test against custom input **Congratulations** Next Challenge You solved this challenge. Would you like to challenge your friends? f in Compiler Message Success Download Input (stdin)