

Problem 1200: Minimum Absolute Difference

Problem Information

Difficulty: Easy

Acceptance Rate: 71.00%

Paid Only: No

Tags: Array, Sorting

Problem Description

Given an array of **distinct** integers `arr`, find all pairs of elements with the minimum absolute difference of any two elements.

Return a list of pairs in ascending order(with respect to pairs), each pair `[a, b]` follows

`* `a, b` are from `arr` * `a < b` * `b - a` equals to the minimum absolute difference of any two elements in `arr``

Example 1:

Input: `arr = [4,2,1,3]` **Output:** `[[1,2],[2,3],[3,4]]` **Explanation:** The minimum absolute difference is 1. List all pairs with difference equal to 1 in ascending order.

Example 2:

Input: `arr = [1,3,6,10,15]` **Output:** `[[1,3]]`

Example 3:

Input: `arr = [3,8,-10,23,19,-4,-14,27]` **Output:** `[[-14,-10],[19,23],[23,27]]`

Constraints:

`* `2` <= arr.length <= 105` * `-106` <= arr[i] <= 106``

Code Snippets

C++:

```
class Solution {
public:
    vector<vector<int>> minimumAbsDifference(vector<int>& arr) {

    }
};
```

Java:

```
class Solution {
    public List<List<Integer>> minimumAbsDifference(int[] arr) {

    }
}
```

Python3:

```
class Solution:
    def minimumAbsDifference(self, arr: List[int]) -> List[List[int]]:
```