Min sum formed by digits

> 给定一个由0～9中任意数字组成的数组，找出两个数字组合使得这两个数之和最小

首先将数组排序，然后利用两个指针，交替前进

```
#include <bits/stdc++.h>

using namespace std;

int minDigitsSum(vector<int> &arr) {
    if (arr.size() == 1) return arr.front();
    sort(arr.begin(), arr.end());
    int i = 0, j = 1;
    int n1 = arr[i], n2 = arr[j];
    i += 2, j += 2;
    while (i < arr.size() && j < arr.size()) {
        n1 = n1 * 10 + arr[i];
        n2 = n2 * 10 + arr[j];
        i += 2;
        j += 2;
    }
    if (i < arr.size()) {
        n1 = n1 * 10 + arr[i];
        i += 2;
    } else if (j < arr.size()) {
        n2 = n2 * 10 + arr[j];
        j += 2;
    }
    return n1 + n2;
}

int main() {
    int T;
    scanf("%d", &T);
    while (T--) {
        int N, num;
        vector<int> arr;
        scanf("%d", &N);
        for (int i = 0; i < N; ++i) {
            scanf("%d", &num);
            arr.push_back(num);
        }
        printf("%d\n", minDigitsSum(arr));
    }
    return 0;
}
```