Problem F
Summing up subarrays
Time limit: 1 second

The NCPC king has n numbers in $\{1, 2, \ldots, 99999\}$, namely a_0, a_1, ..., a_{n-1}; these n numbers are not multiples of n. He wants to find indices $i \in \{0, 1, \ldots, n-1\}$ and $j \in \{i, i+1, \ldots, n-1\}$ such that

$$a_i + a_{i+1} + \cdots + a_j$$

is a multiple of n.

Input File Format

The first line is the number of test cases. Each test case consists of n in one line and a_0, a_1, ..., a_{n-1} (in that order) in the next line. Two consecutive numbers in a line are separated by a space. There will be at most 10 test cases, and $2 \leq n \leq 100000$.

Output Format

For each test case, output i and j such that $0 \leq i \leq j \leq n-1$ and $\sum_{k=i}^{j} a_k$ is a multiple of n. If there are many correct outputs, just output one of them. It is guaranteed that a solution exists.

Sample Input

```
5
8
2 7 5 5 1 1 4 6
8
1 4 1 1 4 1 6 5
8
3 4 6 5 3 2 7 4
8
1 6 5 6 2 3 3 5
8
1 6 6 2 6 1 4 2
```

Output for the Sample Input

```
2 6
4 7
3 4
3 4
2 3
```