```c
#include <stdio.h>

int main(){
    int num[1000], n, i;
    scanf("%d", &n);
    for(i = 0; i < n; i++)
        scanf("%d", &num[i]);

    int val1 = num[0], val2;
    int loc1 = 0, loc2;

    // Find the largest value in the list and its location
    for(i = 1; i < n; i++)
        if(num[i] > val1){
            val1 = num[i];
            loc1 = i;
        }

    // Exclude all occurences of the largest element at beginning of list
    for(i = 0; i < n && num[i] == val1; )
        i++;

    // If we have no elements left then default
    if(i == n)
        printf("DEFAULT");
    else{
        // Set initial value carefully
        loc2 = i;
        val2 = num[i++];

        // Find the largest value not equal to val1
        for(; i < n; i++)
            if(num[i] > val2 && num[i] != val1){
                val2 = num[i];
                loc2 = i;
            }
        if(loc1 < loc2)
            printf("%d %d\n%d %d", loc1+1, loc2+1, val1, val2);
        else
            printf("%d %d\n%d %d", loc2+1, loc1+1, val2, val1);
    }
    return 0;
}
```