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// LIBS
#include <stdio.h>
#include "header1.h" // custom header file
// FUNCTION DECLARATION
int minDistance(int *array, int N, int a, int b);
// MAIN FUNCTION
int main() {
  // Number of test cases
  int T;
  scanf("%d", &T);
  // Test cases begin
  for (int case_index = 0; case_index < T; case_index++) {</pre>
     // Length of array
     int N;
     scanf("%d", &N);
     // Initializing Array
     int *array;
     array = (int*) malloc(sizeof(int) * N);
     // Error Handlings
     if (array == NULL) {
     return 1;
     // Inputting Array while checking for errors
     if (inputArray(array, N) != 0) {
     return -1;
     }
     int a, b;
     scanf("%d %d", &a, &b);
     int min distance;
     min distance = minDistance(array, N, a, b);
     if (min distance <= 0) {</pre>
     return -1;
     }
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printf("%d\n", min_distance);
     free (array);
  }
 return 0;
// FUNCTION DEFINITION
int minDistance(int *array, int N, int a, int b) {
  int last a = -1;
 int last b = -1;
  int min_distance = N;
 for (int index = 0; index < N; index++) {</pre>
     if (array[index] == a) {
     if (last b != -1) {
     min distance = ((index - last b) < min distance) ? (index
- last_b) : min_distance;
     last a = index;
     else if (array[index] == b) {
     if (last a != -1) {
     min distance = ((index - last a) < min distance) ? (index
- last_a) : min_distance;
     last b = index;
  }
 return (min distance == N) ? -1 : min distance;
```