Arrays

Tasks:

1. Make a program for handling an integer array with a maximum of 50 elements with the following options:
   1. **Add a new element to the array**
      - Enter the new element
      - Increment the counter of elements in the array
   2. **Display all elements of the array**
   3. **Display n^{th} element of the array**
      - The user enters the index for the element to be displayed
   4. **Find an element and display its index**
      - The user enters the value to be found
      - If the element with that value was found, display its index
      - If there is no such element in the array, display -1
   5. **Modify n^{th} element of the array**
      - The user enters the index of the element to be modified
      - The user enters the new value for the element on the specified index
   6. **Erase n^{th} element of the array**
      - The user enters the index of the element to be deleted
      - All elements after the n^{th} are moved to the previous index, and the last element is overwritten with 0 and the counter of the elements is decremented
   7. **Display the value and index of the minimal element in the array**
      - Find the minimal element ad display its value
      - Display the index of the minimal element
   8. **Sum of all array elements**
      - Calculate and display the sum of values of all elements of the array
   0. **Exit program**