#include <stdio.h>

#include <stdlib.h>

int main() {

int N, index1, index2;

// Prompts the user for the size of the array

printf("Enter the size of the array (N >= 5): ");

scanf("%d", &N);

while (N < 5) {

printf("Invalid size. Please enter a size of array of at least 5: ");

scanf("%d", &N);

}

// Dynamically allocate memory for the array using pointers

int \*array = (int \*)malloc(N \* sizeof(int));

if (array == NULL) {

printf("Memory allocation failed.\n");

return 1;

}

// Prompts the user to enter each element of the array one by one

printf("Enter the array elements:\n");

for (int i = 0; i < N; i++) {

printf("Element %d: ", i);

scanf("%d", &array[i]);

}

// Prompts the user to enter two indices of the array elements and validate both of the indices

printf("Enter the indices of the two elements (0 <= index1, index2 < %d): ", N);

scanf("%d %d", &index1, &index2);

while (index1 < 0 || index1 >= N || index2 < 0 || index2 >= N) {

printf("Error: Indices must be within the range of the array elements. Please try again.\n");

printf("Enter the indices of the two elements (0 <= index1, index2 < %d): ", N);

scanf("%d %d", &index1, &index2);

}

// Calculate and print the output of the sum

int sum = \*(array + index1) + \*(array + index2);

printf("The sum of the values at indices %d and %d is: %d\n", index1, index2, sum);

// Free allocated memory

free(array);

return 0;

}