#include <stdio.h>

#define SIZE 10

int binarySearch(int arr[], int size, int quary);

int main() {

int a [] = {-5,-3,0,4,8,11,22,56,57,97};

printf("%d\n",binarySearch(a,SIZE,0));

printf("%d\n",binarySearch(a,SIZE,-4));

printf("%d\n",binarySearch(a,SIZE,8));

printf("%d\n",binarySearch(a,SIZE,1));

printf("%d\n",binarySearch(a,SIZE,-5));

printf("%d\n",binarySearch(a,SIZE,9));

printf("%d\n",binarySearch(a,SIZE,7));

return 0;

}

int binarySearchRec(int arr[], int quary, int start, int end) {

int middle;

if (start > end)

return -1;

middle = (start + end) / 2;

if (arr[middle] == quary)

return middle;

if (arr[middle] > quary)

return binarySearchRec(arr,quary,start,middle-1);

else

return binarySearchRec(arr,quary,middle+1,end);

}

int binarySearch(int arr[], int size, int quary) {

return binarySearchRec(arr,quary,0,size-1);

}

