

```
1 #include <stdio.h>
2 int median(int arr[], int size) {
3     if (size % 2 == 0)
4         return (arr[size / 2] + arr[size / 2 - 1]) / 2;
5     else
6         return arr[size / 2];
7 }
8 int medianOfSortedArrays(int arr1[], int arr2[],
9 int size) {
10     int med1, med2;
11
12     if (size <= 0)
13         return -1;
14
15     if (size == 1)
16         return (arr1[0] + arr2[0]) / 2;
17
18     if (size == 2)
19         return (arr1[0] + arr2[0] + arr1[1] + arr2[1]) / 4;
20
21     med1 = median(arr1, size);
22     med2 = median(arr2, size);
23
24     if (med1 == med2)
```

```
/tmp/a.out
The median of the two sorted arrays is: 3
```

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4  static int length_of_longest_substring(char *str1)
5  {
6      int offset[128];
7      int substr_max_len = 0;
8      int len = 0;
9      int index = 0;
10     memset(offset, 0xff, sizeof(offset));
11     while (*str1 != '\0') {
12         if (offset[*str1] == -1) {
13             len++;
14         }
15         else {
16             if (index - offset[*str1] > len)
17                 {
18                     len++;
19                 }
20             else
21                 {
22                     len = index - offset[*str1];
23                 }
24         }
25         if (len > substr_max_len)
26             {
```

/tmp/a.out

Original String: abcabcbb  
Length of the longest substring without repeating characters: 3

Explorer

main.c

main.c x

Save Run

Output

```
1  #include <stdio.h>
2  #include <limits.h>
3  int minJumps(int arr[], int n) {
4      if (n <= 1)
5          return 0;
6
7      if (arr[0] == 0)
8          return -1;
9
10     int maxReach = arr[0];
11     int steps = arr[0];
12     int jumps = 1;
13     for (int i = 1; i < n; i++) {
14         if (i == n - 1)
15             return jumps;
16
17         maxReach = (i + arr[i] > maxReach) ? i +
arr[i] : maxReach;
18
19         steps--;
20
21         if (steps == 0) {
22             jumps++;
23
24             if (i >= maxReach)
25                 return -1;
```

```
/tmp/a.out
Minimum number of jumps needed: 2
|
```



Line	Col	File	Message
		C:\Users\Byalla Vishnu\Desktop\int to rom...	In function 'intToRoman':
7	27	C:\Users\Byalla Vishnu\Desktop\int to roman nu...	[Warning] implicit declaration of functio
7	27	C:\Users\Byalla Vishnu\Desktop\int to roman nu...	[Warning] incompatible implicit declara
3	1	C:\Users\Byalla Vishnu\Desktop\int to roman nu...	[Note] include '<stdlib.h>' or provide a c

11

+ v

1. *Journal of Management Studies*, 1996, 33, 1, 1-14.

1. *Journal of Management Studies*, 1997, 34, 1, 1-14.

```
C:\Users\Byalla Vishnu\Desktop \x + v
Before sorting: 2 0 2 1 1 0
After sorting: 0 0 1 1 2 2

-----
Process exited after 9.796 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\Byalla Vishnu\Desktop\sort an array 0s,and 1s.c - [Executing] - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 9.2.0 64-bit Release
(globals)
Project Class sort an array 0s,and 1s.c x
1 #include <stdio.h>
2 void swap(int *a, int *b) {
3     int temp = *a;
4     *a = *b;
5     *b = temp;
6 }
7 void sortColors(int* nums, int numsSize) {
8     int low = 0;
9     int mid = 0;
10    int high = numsSize - 1;
11    while (mid <= high) {
12        switch (nums[mid]) {
13            case 0:
14                swap(&nums[low++], &nums[mid++]);
15                break;
16            case 1:
17                mid++;
18                break;
19            case 2:
20                swap(&nums[mid], &nums[high--]);
21                break;
22        }
23    }
24 }
25 void printArray(int* nums, int numsSize) {
26     for (int i = 0; i < numsSize; i++) {
27         printf("%d ", nums[i]);
28     }
29 }
Compiler Resources Compile Log Debug Find Results Console Close
Abort Compilation
Shorten compiler pat
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Byalla Vishnu\Desktop\sort an array 0s,and 1s
- Output Size: 323.8857421875 KiB
- Compilation Time: 0.30s
Line: 24 Col: 2 Sel: 0 Lines: 41 Length: 986 Insert Done parsing in 0.047
```



```
C:\Users\Byalla Vishnu\Desktop \x + \x
The 2th largest element is: 2
-----
Process exited after 4.875 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\Byalla Vishnu\Desktop\kth largest element.c - [Executing] - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 9.2.0 64-bit Release
(globals)
Project Class sort an array 0s, and 1s.c kth largest element.c
1 #include <stdio.h>
2 void swap(int* a, int* b) {
3     int temp = *a;
4     *a = *b;
5     *b = temp;
6 }
7 int partition(int arr[], int low, int high) {
8     int pivot = arr[high];
9     int i = low - 1;
10    for (int j = low; j < high; j++) {
11        if (arr[j] <= pivot) {
12            i++;
13            swap(&arr[i], &arr[j]);
14        }
15    }
16    swap(&arr[i + 1], &arr[high]);
17    return i + 1;
18 }
19 int quickSelect(int arr[], int low, int high, int k) {
20     if (low <= high) {
21         int pivotIndex = partition(arr, low, high);
22
23         if (pivotIndex == k - 1) {
24             return arr[pivotIndex];
25         } else if (pivotIndex > k - 1) {
26             return quickSelect(arr, low, pivotIndex - 1, k);
27         } else {
28             return quickSelect(arr, pivotIndex + 1, high, k);
29         }
30     }
31     return -1;
32 }
33 int main() {
34     int arr[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};
35     int n = sizeof(arr) / sizeof(arr[0]);
36     int k = 2;
37     int result = quickSelect(arr, 0, n - 1, k);
38     printf("The %dth largest element is: %d\n", k, result);
39     return 0;
40 }
```

Compiler Resources Compile Log Debug Find Results Console Close

Abort Compilation

Shorten compiler path

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\Byalla Vishnu\Desktop\kth largest element.exe  
- Output Size: 323.9111328125 KiB  
- Compilation Time: 0.27s

Line: 46 Col: 7 Sel: 0 Lines: 48 Length: 1287 Insert Done parsing in 0.015