

```
#include <stdio.h>
#include <stdlib.h>
```

```
int flag = 0;
```

```
void swap (int *a, int *b) {
```

```
    int t = *a;
```

```
    *a = *b;
```

```
    *b = t;
```

```
int search (int arr[], int num, int mobile){
```

```
    for (int g = 0; g < num; g++) {
```

```
        if (arr[g] == mobile) {
```

```
            return g + 1;
```

```
        }
```

```
        return -1;
```

```
    }
```

```
int find_mobile (int arr[], int d[],  
                 int num) {
```

```
    int mobile = 0;
```

```
    int mobile_p = 0;
```

```
    for (int i = 0; i < num; i++) {
```

```
        if (d[arr[i] - 1] == 0) {
```

```
            if (arr[i] > arr[i-1] || arr[i] >  
                mobile_p) {
```

```
                mobile = arr[i];
```

```
                mobile_p = mobile;
```

```

    }
    else if ((arr[i] - 1) == 1) {
        if (i != num - 1) {
            if (arr[i] > arr[i+1] ||
                arr[i] > mobile - P) {
                mobile = arr[i];
                mobile - P = mobile;
            }
        }
    }
}

```

```

if (mobile - P == 0) {
    return 0;
}
else {
    return mobile;
}

```

```

}
void Permutations (int arr[], int d[],
    int num) {

```

```

    int mobile = Find-Mobile (arr, d, num);
    int pos = Search (arr, num, mobile);

```

```

    if ((arr[pos-1] - 1) == 0)
        swap (arr[pos-1], arr[pos-2]);
    else
        swap (arr[pos-1], arr[pos]);

```

```

    for (int i = 0; i < num; i++) {
        if (arr[i] > mobile) {
            if ((arr[i] - 1) == 0)
                arr[i] - 1 = 1;

```

leetcode

```
#include <stdio.h>
```

```
#include <string.h>
```

```
int cmp (const void *a, const void *b) {
```

```
    const char *a", const void *b) {
```

```
    const char *pa = (const char *) a;
```

```
    int len-a = strlen(pa);
```

```
    int len-b = strlen(pb);
```

```
    if (len-a != len-b) {
```

```
        return len-a - len-b;
```

```
    }
```

```
    return strcmp(pa, pb)
```

```
    }
```

```
char* kthLargestNumber (char** nums,
```

```
int numSize, int k) {
```

```
    qsort (nums, numSize,
```

```
    sizeof (char*), cmp);
```

```
    return nums [numSize - k];
```

```
}
```

```
int main () {
```

```
    char* nums [] = {"3", "6", "123",  
                    "23", "8"};
```



```

int numSize = 5;
int k = 2;
char* result = kth longest Number (nums,
numSize, k);
printf ("The %d-th longest number is: %s\n",
k, result);
return 0;
}

```

Output

case 1:

nums = { 3, 6, 7, 10 }

k = 4

output = "3"

nums = { 2, 21, 12, 1 }

k = 3

output = "2"

nums = { 0, 0 }

k = 2

output = "0"

Q
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