

ASSIGNMENT 2

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Batch : T5

Branch : IT

Course : Computer Algorithms Lab

```

1 #include <stdio.h>
2 #include <stdlib.h>
3 #define M 10000
4 void input(int *a){
5     int cnt=M;
6     for(int i=0;i<M;i++){
7         a[i]=cnt--;
8     }
9 }
10 void swap(int *p,int *q){
11     int r=*p;
12     *p=*q;
13     *q=r;
14 }
15 void pivot(int *a,int l,int r){
16     if(*(a+l) > *(a+r))
17         swap(a+l,a+r);
18 }
19 int partition(int *a,int l,int r){
20     int i=l,j=r,k;
21     pivot(a,l,r);
22     k=a[l];
23     do{
24         do ++i; while (a[i]<j);
25         do --j; while (a[j]>k);
26         if(i<j)
27             swap(a+i,a+j);
28     } while (i<j);
29     swap(a+l,a+j);
30     return j;
31 }
32 void quick(int *a, int l, int r){
33     int k;
34     if(l<r){
35         k=partition(a,l,r);
36         quick(a,l,k-1);
37         quick(a,k+1,r);
38     }
39 }
40 int main(){
41     int x[M];
42     input(x);
43     quick(x,0,M-1);
44     return 0;
45 }

```



rajat@Rajat-PC: ~

```
rajat@Rajat-PC:~$ source /opt/intel/oneapi/setvars.sh
```

```
:: WARNING: setvars.sh has already been run. Skipping re-execution.  
To force a re-execution of setvars.sh, use the '--force' option.  
Using '--force' can result in excessive use of your environment variables.
```

```
usage: source setvars.sh [--force] [--config=file] [--help] [...]  
--force      Force setvars.sh to re-run, doing so may overload environment.  
--config=file Customize env vars using a setvars.sh configuration file.  
--help      Display this help message and exit.  
...         Additional args are passed to individual env/vars.sh scripts  
            and should follow this script's arguments.
```

Some POSIX shells do not accept command-line options. In that case, you can pass command-line options via the SETVARS_ARGS environment variable. For example:

```
$ SETVARS_ARGS="ia32 --config=config.txt" ; export SETVARS_ARGS  
$ . path/to/setvars.sh
```

The SETVARS_ARGS environment variable is cleared on exiting setvars.sh.

```
rajat@Rajat-PC:~$ advisor-gui
```

