Assignment 6

1. Write a program that takes as input an integer k>0 and finds the kth largest number in an array. So if a[]={3,7,5,9,1,4,8} and k=3, the program should return 7.

2. Write a program to read in a set of floating-point numbers and store them in an array, x[], then reverse the order of the numbers in the array and finally write out the array, so that the numbers are now displayed in reserve order.
   Sample **input** and **output**:
   1 15 2 16 3 17 4 18 5 19
   The numbers in reverse order are:
   19 5 18 4 17 3 16 2 15 1
   Note that the program should not simply write the numbers in reverse order but should modify the array so that, if, after reading in the values, we have `x[] = {1, 15, 2, 16, 3, 17, 4, 18, 5, 19},` then the array is *modified* so that
   `x[] = {19, 5, 18, 4, 17, 3, 16, 2, 15,1}`

```
Note that to get values into an array, your program can
start with a loop that reads the values from the user:
#define N 10

int main(void)
{
    int a[N];
    int i;
    for (i=0;i<N;i++)
        scanf("%d", &a[i]);
}
```