Input: Ascending Order

```c
//Ascending Order
#include <xc.h>
#include <stdlib.h>
#include <pic18f4550.h>

void main(void) {
    int i, j, t;
    int a[] = {0x01, 0x03, 0x06, 0x04, 0x07, 0x02, 0x05, 0x08};


    for(i = 0; i < 7; i++) {
        for(j = 0; j < 7 - i; j++) {
            if(a[j] > a[j+1]) {
                t = a[j];
                a[j] = a[j+1];
                a[j+1] = t;
            }
        }
    }

    TRISD = 0;


    for(i = 0; i < 8; i++) {
        PORTD = a[i];

        for(int n = 0; n < 1000; n++) {
            for(int k = 0; k < 100; k++) {

            }
        }
    }
}
```

Input:Descending Order

```c
//Decending Order
#include <xc.h>
#include <stdlib.h>
#include <pic18f4550.h>

void main(void) {
    int i, j, t;
    int a[] = {0x01, 0x03, 0x06, 0x04, 0x07, 0x02, 0x05, 0x08};


    for(i = 0; i < 7; i++) {
        for(j = 0; j < 7 - i; j++) {
            if(a[j] < a[j+1]) {
                t = a[j];
                a[j] = a[j+1];
                a[j+1] = t;
            }
        }
    }

    TRISD = 0;


    for(i = 0; i < 8; i++) {
        PORTD = a[i];
        for(int n = 0; n < 1000; n++) {
            for(int k = 0; k < 100; k++) {
            }
        }
    }
}
```