

```
ASSENDIND
#include <xc.h>
#include <pic18f4550.h>

void main(void)
{
    int a[] = {12, 5, 20, 7, 1};
    int i, j, temp;

    TRISD = 0;

    // ASCENDING SORT
    for(i = 0; i < 5; i++)
    {
        for(j = i + 1; j < 5; j++)
        {
            if(a[i] > a[j])
            {
                temp = a[i];
                a[i] = a[j];
                a[j] = temp;
            }
        }
    }
    TRISA= 0 ;
    TRISB= 0 ;
    TRISC= 0 ;
    TRISD= 0 ;
    TRISE= 0 ;
    PORTA = a[0];
    PORTB = a[1];
    PORTC = a[2];
    PORTD = a[3];
    PORTE = a[4];
    return;
}
```