

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;
```

```
}
```