//CODE: function templete selection sort

```
#include<iostream>
using namespace std;
template <typename T>
void selectionsort(T arr[],int size){
  for (int i=0;i<size-1;i++) {
    int mindex=i;
    for (int j=i+1;j < size;j++){
      if(arr[j]<arr[minindex]){</pre>
         minindex=j;
      }
    }
    T temp=arr[minindex];
    arr[minindex]=arr[i];
    arr[i]=temp;
  }
}
template<typename T>
void printarray(T arr[],int size){
  for (int i=0;i<size;i++){
    cout<<arr[i]<<" ";
  }
  cout<<endl;
}
int main()
{
  int intarr[]={64,25,12,22,11};
```

```
int intsize=sizeof(intarr)/sizeof(intarr[0]);
  float floatarr[]={64.5,25.3,12.1,22.9,11.6};
  int floatsize=sizeof(floatarr)/sizeof(floatarr[0]);
  cout<<"Original Integer array:";
  printarray(intarr,intsize);
  selectionsort(intarr,intsize);
  cout<<"Sorted integer array:";
  printarray(intarr,intsize);
  cout<<endl;
  cout<<"Original float array";
  printarray(floatarr,floatsize);
  selectionsort(floatarr,floatsize);
  cout<<"Sorted float array:";
  printarray(floatarr,floatsize);
  cout<<endl;
  return 0;
}
```

//OUTPUT:

```
Original integer array: 64 25 12 22 11
Sorted integer array: 11 12 22 25 64
Original float array: 64.5 25.3 12.1 22.9 11.6
Sorted float array: 11.6 12.1 22.9 25.3 64.5
```