**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Assignment No 5 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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**Write a function template for selection sort that inputs, sorts and outputs an integer array and a float array.**

#include<iostream>

using namespace std; int n;

#define size 10 template<class T> void sel(T A[size])

{

int i,j,min; T temp;

for(i=0;i<n-1;i++)

{ min=i;

for(j=i+1;j<n;j++)

{

if(A[j]<A[min])

min=j;

}

temp=A[i]; A[i]=A[min];

A[min]=temp;

}

cout<<"\nSorted array:"; for(i=0;i<n;i++)

{

cout<<" "<<A[i];

}

}

int main() { int A[size];

float B[size]; int i;

cout<<"\nEnter total no of int elements:"; cin>>n;

cout<<"\nEnter int elements:"; for(i=0;i<n;i++)

{

cin>>A[i];

} sel(A);

cout<<"\nEnter total no of float elements:"; cin>>n;

cout<<"\nEnter float elements:"; for(i=0;i<n;i++)

{

cin>>B[i];

} sel(B);

}

**Output:**



