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DIV:C
BATCH:C1
ROLL NO S213003
SUBJECT:OOP

PROBLEM STATEMENT:

Write a function template selection Sort. Write a program that inputs, sorts and outputs an integer array and a float array.

CODE:

```
#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<<"in sorted array:";
for(i=0;i<n;i++)
{
cout<<" "<<A[i];
}
}
int main()
{
int A[size];
float B[size];
int i;
cout<<"\n Enter total no of elements:";
cin>>n;
cout<<"\nEnter int elements:";
for (i=0;i<n;i++)
```

```
{
cin>>A[i];
}
sel (A);
cout<<"\n enter the total no of float elements:";
cin>>n;
cout<<"\nEnter float elements:";
for (i=0;i<n;i++)
{
cin>>B[i];
}
sel(B);
}
```

INPUT/OUTPUT: