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Class: se

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Sub: OOP

```
#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;
    int ch;
    do
    {
        cout<<"\n* * * * * SELECTION SORT SYSTEM * * * * *";

        cout<<"\n.....MENU.....";

        cout<<"\n1. Integer Values";

        cout<<"\n2. Float Values";

        cout<<"\n3. Exit";

        cout<<"\n\nEnter your choice : ";

        cin>>ch;

        switch(ch)
        {

```

case 1:

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

cin>>n;

cout<<"\nEnter int elements:";

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

{

cin>>A[i];

}

sel(A);

break;

case 2:

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

cin>>n;

cout<<"\nEnter float elements:";

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

{

cin>>B[i];

}

sel(B);

break;

case 3:

exit(0);

}

```
}while(ch!=3);
```

```
return 0;
```

```
}
```

Output:

```
Enter total no of int elements:4
Enter int elements:5 7 8 3
Sorted array: 3 5 7 8
* * * * * SELECTION SORT SYSTEM * * * * *
-----MENU-----
1. Integer Values
2. Float Values
3. Exit

Enter your choice : 2

Enter total no of float elements:2
Enter float elements:3.56 6.78
Sorted array: 3.56 6.78
* * * * * SELECTION SORT SYSTEM * * * * *
-----MENU-----
1. Integer Values
2. Float Values
3. Exit

Enter your choice : 3

-----
Process exited after 60.62 seconds with return value 0
Press any key to continue . . .
```