```
//                                      Milos Topic
//                                      09/24/99
//                                      CIS-112   problem #5
//                                      Computer Science II
#include
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class array1
        {
                public:
                        array1() {}
                        void title();
                        void fillit(int arr[],int size);
                        void printit(int arr[],int size);
                        int large(int arr[],int size);
                        int small(int arr[],int size);
                        int range(int large,int small);
                        void printrange(int range);
                private:
        };
void array1::fillit(int arr[],int size)
        {
                ifstream infile("c:\\bc45\\bin\\pmshop\\cpp\\top.dat", ios::in);
                int i = 0;
                while(i < size)
                        {
                                infile >> arr[i];
                                i=i++;
                        }
        }
void array1::title()
        {
                cout << "\n\n Milos Topic                          09/24/99";
                cout << "\n\n Problem #5";
                cout << "\n\n ***RANGE***";
                cout << "\n";
        }
```

```
int array1::large(int arr[], int size)
	{
		int i = 0;
		int large = arr[0];
		while(i < size)
			{
				if(large < arr[i])
					{
						large = arr[i];
					}
				i++;
			}
		return large;
	}
int array1::small(int arr[], int size)
	{
		int i=0;
		int small = arr[0];

		while(i < size)
			{
				if(arr[i] < small)
				 {
					small = arr[i];
				 }
				 i++;
			}
		return small;
	}
int array1::range(int large,int small)
	{
		int range = 0;
		range = large - small;
		return range;
	}
void array1::printit(int arr[],int size)
	{
```

```
                int i=0;
                cout << "\n The values are: ";
                while(i < size)
                        {
                                cout << arr[i] << " ";
                                i=i++;
                        }
                getch();
        }
void array1::printrange(range)
        {
                cout << "\n\n The range between largest and smallest value is: " << range;
        }
void main()
        {
                const int size=5;
                int arr[size];
                int large=0;
                int small=0;
                int range=0;
                array1 a;
                a.title();
                a.fillit(arr,size);
                a.printit(arr,size);
                large = a.large(arr,size);
                cout <<"\n\n Largest: " << large << endl;;
                small = a.small(arr,size);
                cout << "\n Smallest: " << small << endl;;
                range = a.range(large,small);
                a.printrange(range);
        }
```

***** OUTPUT *****

Milos Topic 09/24/99

Problem #5

RANGE

The values are: 90 23 -36 47 53

Largest: 90

Smallest: -36

The range between largest and smallest value is: 126