cout << "let's do some analysis and programming" << endl;</pre>

http://alstatr.blogspot.com/

 $\begin{array}{c} \text{Median} \\ C/C++ \ Programming \end{array}$

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Output:

```
Enter the Sample Size: 5
Enter the Data: 88.3 32.6 52.0 47.8 93.7
Sorted Data: 32.6 47.8 52 88.3 93.7
Median: 52
Press <RETURN> to close this window...
```

C Codes:

```
#include<stdio.h>
int main()
{
   int i, j, n;
   float temp, median;

   printf("Enter the Sample Size: ");
   scanf("%d", &n);

   float x[n];
   printf("Enter the Data: ");
   for(i = 1; i <= n; ++i){
      scanf("%f", &x[i]);
   }
}</pre>
```

```
}
  /*Sort the Data*/
    for(i = 1; i <= n; ++i){
      for(j = i + 1; j \le n; ++j){
        if(x[i] > x[j]){
          temp = x[i];
          x[i] = x[j];
          x[j] = temp;
        }
      }
    }
  /*Sorted Data*/
    printf("Sorted Data: ");
  for(i = 1; i \le n; ++i){
    printf("%2.2f ", x[i]);
  printf("\n");
  /*Compute the Median*/
    if(n \% 2 == 0){
      median = (x[n / 2] + x[n / 2 + 1]) / 2;
    }
  else{
    median = x[n / 2 + 1];
  printf("Median: %2.2f\n", median);
 return 0;
}
C++ Codes:
#include<iostream>
#include<iomanip>
using namespace std;
int main()
{
  int i, j, n;
  float temp, median;
  cout << "Enter the Sample Size: ";</pre>
  cin >> n;
```

```
float x[n];
cout << "Enter the Data: ";</pre>
for(i = 1; i \le n; ++i){
  cin >> x[i];
}
/*Sort the Data*/
  for(i = 1; i \le n; ++i){
    for(j = i + 1; j \le n; ++j){
      if(x[i] > x[j]){
        temp = x[i];
        x[i] = x[j];
        x[j] = temp;
      }
    }
  }
/*Sorted Data*/
  cout << "Sorted Data: ";</pre>
for(i = 1; i \le n; ++i){
  cout << x[i] << " ";
}
/*Compute the Median*/
  if(n \% 2 == 0){
    median = (x[n / 2] + x[n / 2 + 1]) / 2;
  }
else{
 median = x[n / 2 + 1];
cout << endl;</pre>
cout << "Median: " << setprecision(4) << median << endl;</pre>
return 0;
```

Labels

}

C and CPP, Descriptive Statistics,