

Code in C

```
\label{eq:computed Mean} $$ // \end{array} Return the computed Mean} $$ // \end{array} Inputs: Readings is an array of 16-bit temperature measurements} $$ // \end{array} $$ N is the number of elements in the array} $$ // \end{array} $$ // \end{
```

```
// Convert temperature in Farenheit to temperature in Centigrade
// Inputs: temperature in Farenheit
// Output: temperature in Centigrade
// Notes: you do not need to implement rounding
int16_t FtoC(int16_t const TinF){
       int C;
       C = ((TinF-32)*5)/9;
       return C;
}
// Return True of False based on whether the readings
// are an increasing monotonic series
// Inputs: Readings is an array of 16-bit temperature measurements
//
       N is the number of elements in the array
// Output: true if monotonic increasing, false if nonmonotonic
int IsMonotonic(int16_t const Readings[],int32_t const N){
       int i = 0;
       while (i < N-1) {
               if (Readings[i] <= Readings[i+1]) {
                      i = i + 1;
                      }
               else {
                      return False;
                       }
               }
 return True;
}
```