

TABLE 6.1 Results of 60
Temperature Measurements in a
Duct

Number of readings	Temperature (°C)
1	1089
1	1092
2	1094
4	1095
8	1098
9	1100
12	1104
4	1105
5	1107
5	1108
4	1110
3	1112
2	1115

For the temperature measurements in Table 6.1, the preceding statistics have the following values:

Mean	$\bar{x} = 1103^{\circ}\text{C}$
Median	$x_m = 1104^{\circ}\text{C}$
Standard deviation	$S = 5.79^{\circ}\text{C}$
Variance	$S^2 = 33.49^{\circ}\text{C}^2$
Mode	$m = 1104^{\circ}\text{C}$

```

100 DIM X(100):REM (26)Dstat51m
110 INPUT N
120 FOR I=1 TO N
130 INPUT X(I):REM Read in n values of sample variable.
140 NEXT I
150 SUM=0
160 FOR I=1 TO N
170 SUM=SUM+X(I)
180 NEXT I
190 MEAN=SUM/N:REM Compute mean.
200 D2=0
210 FOR I=1 TO N
220 D2=D2+(X(I)-MEAN)^2
230 NEXT I
240 VAR=D2/N:SD=SQR(VAR):PRINT MEAN,VAR,SD
250 STOP:END

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LOOK AT
RESULTS ON P. 124
BASED ON TABLE
6.1 ON P. 119

I GOT $\bar{x} = 1103.033$ vs 1103 C
 $S = 5.73866$ vs 5.79 C
 $S^2 = 32.93221$ vs 33.49 C²

... WHY?