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PROGRAM TTEST
DIMENSION FMTRD(10),SSX(50),SUMX(50),NI(50)
DIMENSION XBAR(50),SI(50),SD(50)
DIMENSION X(80)
100 FORMAT (2I2)
101 FORMAT (10A8)
102 FORMAT (1H0,2X,5HLEVEL,11X,4HMEAN,16X,4HS.D.,13X,1HN //)
103 FORMAT (1H ,3X,I3,12X,F12.4,8X,F12.4,3X,I4)
104 FORMAT (1H0,2X,1HI,2X,1HJ,12X,1HT,13X,3H DF //)
105 FORMAT (1H ,2I3,5X,F15.4,5X,I5)
WRITE (61,102)
READ (60,100) N,IP
READ (60,101) FMTRD
DO 11 J=1,N
NI(J)=0
SUMX(J)=0
11 SSX(J)=0
12 READ (IP,FMTRD) (X(J), J=1,N)
IF (EOFCKF(IP).EQ.1) 16,13
13 DO 15 J=1,N
IF (X(J).EQ.0) 15,14
14 NI(J) = NI(J)+1
SUMX(J)=SUMX(J)+X(J)
SSX(J)=SSX(J)+X(J)*X(J)
15 CONTINUE
GO TO 12
16 DO 17 I=1,N
XBAR(I)=SUMX(I)/NI(I)
SI(I)=(SSX(I)-((SUMX(I)*SUMX(I))/NI(I)))/(NI(I)-1)
SD(I)=SQRT(SI(I))
WRITE (61,103) I,XBAR(I),SD(I),NI(I)
17 CONTINUE
WRITE (61,104)
K=N-1
DO 18 I=1,K
L=I+1
DO 18 J=L,N
T=(XBAR(I)-XBAR(J))/SQRT((SI(I)/NI(I))+(SI(J)/NI(J)))
IDF=NI(I)+NI(J)-2
WRITE (61,105) I,J,T,IDF
18 CONTINUE
CALL EXIT
END

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NO ERRORS FOR TTEST

P 02010 C 00000 D 00000

RUN

LEVEL	MEAN	S.D.	N
1	13.1462	1.2439	8
2	13.0788	1.2832	8
3	16.4771	2.7066	7
4	17.8400	2.3594	7
5	17.7300	2.3693	6
6	15.8860	2.7261	5
7	13.9033	1.7403	6
8	12.5500	1.9675	5
9	34.4243	.7049	7
10	34.4629	.6255	7
11	36.8900	5.9674	7
12	59.4086	11.9264	7
13	54.4986	8.7472	7
14	84.3943	13.1177	7
15	26.4062	10.2114	8
16	32.3440	4.7132	5
17	19.5250	8.6217	8
18	24.8680	4.6587	5
19	36.0500	1.3224	8
20	34.8886	1.1858	7
21	53.3356	9.3678	9
22	65.8233	11.5636	9
23	59.2811	8.5146	9
24	68.2037	10.6458	8
25	53.3750	8.3137	6
26	55.8371	15.3556	7
27	42.7333	7.2503	6
28	49.6283	10.0048	6
29	34.1767	.3079	6
30	33.4083	.4908	6

I	J	T	DF
1	2	.1068	14
1	3	-2.9913	13
1	4	-4.7206	13
1	5	-4.3139	12
1	6	-2.1140	11
1	7	-0.9061	12
1	8	.6061	11
1	9	-41.3825	13
1	10	-42.6940	13
1	11	-10.3326	13
1	12	-10.2144	13
1	13	-12.3986	13
1	14	-14.3141	13
1	15	-3.6459	14
1	16	-8.9159	11
1	17	-2.0712	14
1	18	-5.5048	11
1	19	-35.6835	14
1	20	-34.6258	13
1	21	-12.7447	15
1	22	-13.5782	15
1	23	-16.0632	15
1	24	-14.5291	14
1	25	-11.7544	12

1 26	-7.3346	13
1 27	-9.8873	12
1 28	-8.8807	12
1 29	-45.9801	12
1 30	-41.9271	12
2 3	-3.0367	13
2 4	-4.7586	13
2 5	-4.3536	12
2 6	-2.1581	11
2 7	-0.9782	12
2 8	.5341	11
2 9	-40.5705	13
2 10	-41.7991	13
2 11	-10.3498	13
2 12	-10.2262	13
2 13	-12.4119	13
2 14	-14.3240	13
2 15	-3.6627	14
2 16	-8.9353	11
2 17	-2.0917	14
2 18	-5.5289	11
2 19	-35.2604	14
2 20	-34.1981	13
2 21	-12.7582	15
2 22	-13.5900	15
2 23	-16.0746	15
2 24	-14.5406	14
2 25	-11.7679	12
2 26	-7.3448	13
2 27	-9.9030	12
2 28	-8.8938	12
2 29	-44.8147	12
2 30	-40.9895	12
3 4	-1.0042	12
3 5	-0.8899	11
3 6	.3714	10
3 7	2.0665	11
3 8	2.9104	10
3 9	-16.9774	12
3 10	-17.1299	12
3 11	-8.2422	12
3 12	-9.2878	12
3 13	-10.9864	12
3 14	-13.4158	12
3 15	-2.6461	13
3 16	-6.7722	10
3 17	-0.9479	13
3 18	-3.6151	10
3 19	-17.4017	13
3 20	-16.4848	12
3 21	-11.2172	14
3 22	-12.3737	14
3 23	-14.1878	14
3 24	-13.2618	13
3 25	-10.4088	11
3 26	-6.6787	12
3 27	-8.3839	11
3 28	-7.8733	11
3 29	-17.1725	11
3 30	-16.2420	11
4 5	.0836	11
4 6	1.2936	10

4 7	3.4526	11
4 8	4.2226	10
4 9	-17.8187	12
4 10	-18.0178	12
4 11	-7.8545	12
4 12	-9.0463	12
4 13	-10.7054	12
4 14	-13.2116	12
4 15	-2.3035	13
4 16	-6.3372	10
4 17	-0.5305	13
4 18	-3.1011	10
4 19	-18.0852	13
4 20	-17.0814	12
4 21	-10.9303	14
4 22	-12.1282	14
4 23	-13.9297	14
4 24	-13.0204	13
4 25	-10.1260	11
4 26	-6.4709	12
4 27	-8.0525	11
4 28	-7.6037	11
4 29	-18.1399	11
4 30	-17.0330	11
5 6	1.1849	9
5 7	3.1885	10
5 8	3.9614	9
5 9	-16.6396	11
5 10	-16.8045	11
5 11	-7.8073	11
5 12	-9.0402	11
5 13	-10.6739	11
5 14	-13.1970	11
5 15	-2.3213	12
5 16	-6.3014	9
5 17	-0.5613	12
5 18	-3.1075	9
5 19	-17.0525	12
5 20	-16.0953	11
5 21	-10.8920	13
5 22	-12.1019	13
5 23	-13.8573	13
5 24	-12.9880	12
5 25	-10.1000	10
5 26	-6.4765	11
5 27	-8.0294	10
5 28	-7.5995	10
5 29	-16.8615	10
5 30	-15.8720	10
6 7	1.4051	9
6 8	2.2188	8
6 9	-14.8555	10
6 10	-14.9591	10
6 11	-8.1923	10
6 12	-9.3202	10
6 13	-10.9578	10
6 14	-13.4180	10
6 15	-2.7608	11
6 16	-6.7590	8
6 17	-1.1084	11
6 18	-3.7209	8
6 19	-15.4430	11

6 20	-14.6296	10
6 21	-11.1718	12
6 22	-12.3524	12
6 23	-14.0484	12
6 24	-13.2236	11
6 25	-10.3952	9
6 26	-6.7365	10
6 27	-8.3867	9
6 28	-7.9161	9
6 29	-14.9239	9
6 30	-14.1825	9
7 8	1.1966	9
7 9	-27.0443	11
7 10	-27.4573	11
7 11	-9.7207	11
7 12	-9.9718	11
7 13	-12.0047	11
7 14	-14.0738	11
7 15	-3.3980	12
7 16	-8.2904	9
7 17	-1.7961	12
7 18	-4.9811	9
7 19	-26.0393	12
7 20	-24.9811	11
7 21	-12.3133	13
7 22	-13.2467	13
7 23	-15.5096	13
7 24	-14.1764	12
7 25	-11.3829	10
7 26	-7.1716	11
7 27	-9.4710	10
7 28	-8.6172	10
7 29	-28.0983	10
7 30	-26.4225	10
8 9	-23.7931	10
8 10	-24.0508	10
8 11	-10.0536	10
8 12	-10.2026	10
8 13	-12.2613	10
8 14	-14.2676	10
8 15	-3.7289	11
8 16	-8.6660	8
8 17	-2.1985	11
8 18	-5.4465	8
8 19	-23.5849	11
8 20	-22.6218	10
8 21	-12.5719	12
8 22	-13.4743	12
8 23	-15.7265	12
8 24	-14.3981	11
8 25	-11.6434	9
8 26	-7.3741	10
8 27	-9.7745	9
8 28	-8.8744	9
8 29	-24.3315	9
8 30	-23.1135	9
9 10	-0.1083	12
9 11	-1.0857	12
9 12	-5.5329	12
9 13	-6.0522	12
9 14	-10.0641	12
9 15	2.2149	13

9 16	.9791	10
9 17	4.8693	13
9 18	4.5497	10
9 19	-3.0212	13
9 20	-0.8904	12
9 21	-6.0344	14
9 22	-8.1266	14
9 23	-8.7196	14
9 24	-8.9523	13
9 25	-5.5664	11
9 26	-3.6855	12
9 27	-2.7959	11
9 28	-3.7145	11
9 29	.8406	11
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10 11	-1.0703	12
10 12	-5.5264	12
10 13	-6.0447	12
10 14	-10.0594	12
10 15	2.2268	13
10 16	.9990	10
10 17	4.8858	13
10 18	4.5759	10
10 19	-3.0295	13
10 20	-0.8401	12
10 21	-6.0267	14
10 22	-8.1207	14
10 23	-8.7141	14
10 24	-8.9468	13
10 25	-5.5586	11
10 26	-3.6797	12
10 27	-2.7853	11
10 28	-3.7068	11
10 29	1.0689	11
10 30	3.4028	11
11 12	-4.4675	12
11 13	-4.3997	12
11 14	-8.7213	12
11 15	2.4628	13
11 16	1.4726	10
11 17	4.5794	13
11 18	3.9153	10
11 19	.3647	13
11 20	.8703	12
11 21	-4.2694	14
11 22	-6.4787	14
11 23	-6.1764	14
11 24	-7.1364	13
11 25	-4.0453	11
11 26	-3.0429	12
11 27	-1.5702	11
11 28	-2.7301	11
11 29	1.2011	11
11 30	1.5376	11
12 13	.8783	12
12 14	-3.7287	12
12 15	5.7144	13
12 16	5.4388	10
12 17	7.3293	13
12 18	6.9555	10
12 19	5.1542	13
12 20	5.4128	12

12 21	1.1075	14
12 22	-1.0816	14
12 23	.0239	14
12 24	-1.4977	13
12 25	1.0693	11
12 26	.4860	12
12 27	3.0922	11
12 28	1.6078	11
12 29	5.5953	11
12 30	5.7622	11
13 14	-5.0167	12
13 15	5.7386	13
13 16	5.6504	10
13 17	7.7772	13
13 18	7.5823	10
13 19	5.5251	13
13 20	5.8776	12
13 21	.2557	14
13 22	-2.2301	14
13 23	-1.0976	14
13 24	-2.7357	13
13 25	.2371	11
13 26	-0.2004	12
13 27	2.6513	11
13 28	.9268	11
13 29	6.1423	11
13 30	5.3674	11
14 15	9.4548	13
14 16	9.6614	10
14 17	11.1457	13
14 18	11.0685	10
14 19	9.7077	13
14 20	9.9444	12
14 21	5.3007	14
14 22	2.9571	14
14 23	4.3959	14
14 24	2.6010	13
14 25	5.1626	11
14 26	3.7411	12
14 27	7.2148	11
14 28	5.4121	11
14 29	10.1253	11
14 30	10.2751	11
15 16	-1.4203	11
15 17	1.4563	14
15 18	.3690	11
15 19	-2.6491	14
15 20	-2.3316	13
15 21	-5.8416	15
15 22	-7.4636	15
15 23	-7.1586	15
15 24	-8.0142	14
15 25	-3.4425	12
15 26	-4.3058	13
15 27	-3.4973	12
15 28	-4.2599	12
15 29	-2.1510	12
15 30	-1.9365	12
16 17	3.4590	11
16 18	2.5225	8
16 19	-1.7165	11
16 20	-1.1808	10

16 21	-5.5719	12
16 22	-7.6207	12
16 23	-7.5195	12
16 24	-6.3126	11
16 25	-5.2639	9
16 26	-5.8047	10
16 27	-2.8591	9
16 28	-3.7605	9
16 29	-0.6679	9
16 30	-0.5027	9
17 18	-1.4471	11
17 19	-5.3585	14
17 20	-4.9865	13
17 21	-7.7481	15
17 22	-9.4214	15
17 23	-9.5453	15
17 24	-10.0506	14
17 25	-7.4201	12
17 26	-5.5391	13
17 27	-5.4622	12
17 28	-5.9067	12
17 29	-4.8025	12
17 30	-4.5447	12
18 19	-5.2368	11
18 20	-4.7020	10
18 21	-7.5836	12
18 22	-9.3472	12
18 23	-9.7742	12
18 24	-10.0733	11
18 25	-7.1580	9
18 26	-5.0222	10
18 27	-4.9356	9
18 28	-5.4001	9
18 29	-4.4598	9
18 30	-2.0803	9
19 20	1.7933	13
19 21	-5.4746	15
19 22	-7.6680	15
19 23	-6.0763	15
19 24	-5.4776	14
19 25	-5.0567	12
19 26	-3.3983	13
19 27	-2.2303	12
19 28	-3.3028	12
19 29	3.8695	12
19 30	5.1934	12
20 21	-5.8477	14
20 22	-7.9716	14
20 23	-6.4891	14
20 24	-6.7892	13
20 25	-5.3998	11
20 26	-3.5987	12
20 27	-2.6204	11
20 28	-3.5872	11
20 29	1.5294	11
20 30	3.0150	11
21 22	-2.5174	16
21 23	-1.4090	16
21 24	-3.0402	15
21 25	-0.0086	13
21 26	-0.3796	14
21 27	2.4642	13

21	28	0.7211	13
21	29	0.1306	13
21	30	0.3685	13
22	23	1.3667	16
22	24	-0.4416	15
22	25	2.4238	13
22	26	1.4333	14
22	27	4.7511	13
22	28	2.6837	13
22	29	8.2059	13
22	30	8.5962	13
23	24	-1.8928	15
23	25	1.3349	13
23	26	0.5331	14
23	27	4.0352	13
23	28	1.9407	13
23	29	8.8365	13
23	30	9.0932	13
24	25	2.9259	12
24	26	1.7877	13
24	27	9.3193	12
24	28	3.3444	12
24	29	9.0354	12
24	30	9.2315	12
25	26	-0.3662	11
25	27	2.3630	10
25	28	0.7055	10
25	29	5.6526	10
25	30	5.8726	10
26	27	2.0113	11
26	28	0.8748	11
26	29	3.7512	11
26	30	3.6622	11
27	28	-1.3669	10
27	29	2.8882	10
27	30	3.1432	10
28	29	3.7813	10
28	30	3.9664	10
29	30	3.2483	10