1 Codigo fuente

Hecho con LaTeX

```c
#include <stdio.h>

/*
Equipo: Azul;

Integrantes: Gonzalez Melchor Abraham

*/

//prototipos
float sigma (int n, float x[]);
int Maximo (int n, float x[]);
int Minimo (int n, float x[]);
void Ordena ();
float Mediana ();

int NAños;
float Copia[50];

int main(){

  int i,j,Año[50],Mes_Max[50],Mes_Min[50],Anio_Max[12],Anio_Min[12];
  float Ventas[50][12],Suma_An[50],Prom_An[50],Max_An[50],Min_An[50];
  float Suma_Mes[12],Prom_Mes[12],Max_Mes[12],Min_Mes[12];
  float VentasOrd[50][12], mediana[50];

  FILE *Entrada;
  Entrada = fopen("Ventas.txt","r");

  FILE *Salida;
  Salida = fopen("Resultados.txt","w");

  fscanf(Entrada,"%d",&NAños);

  for(i=0;i<NAños;i++){

    fscanf(Entrada,"%d",&Año[i]);

    for(j=0;j<12;j++){
      fscanf(Entrada,"%f",&Ventas[i][j]);
      Copia[j] = Ventas[i][j];
    }
    Suma_An[i] = sigma(12,Copia);
    Prom_An[i] = Suma_An[i]/12;

    Mes_Max[i] = Maximo(12,Copia);
    Max_An[i] = Copia[Mes_Max[i]];

    Mes_Min[i] = Minimo(12,Copia);
    Min_An[i] = Copia[Mes_Min[i]];
  }

  for(j=0;j<12;j++){

    for(i=0;i<NAños;i++){
      Copia[i] = Ventas[i][j];
    }

    Suma_Mes[j] = sigma(NAños,Copia);
    Prom_Mes[j] = Suma_Mes[j]/NAños;
```

```
61
62      Anio_Max[j] = Maximo(NAños,Copia);
63      Max_Mes[j] = Copia[Anio_Max[j]];
64
65      Anio_Min[j] = Minimo(NAños,Copia);
66      Min_Mes[j] = Copia[Anio_Min[j]];
67      Ordena();
68      for(i=0;i<NAños;i++){
69        VentasOrd[i][j] = Copia[i];
70      }
71      mediana[j] = Mediana();
72    }
73
74    fprintf(Salida,"|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----
75    fprintf(Salida,"| An~o |   ENE   |   FEB   |   MAR   |   ABR   |   MAY   |   JUN   |   JUL   |   AGO   |
      ↪  SEP   |   OCT   |   NOV   |   DIC   |  SUMA   |  PROM  |  MAX   | MES_MAX |  MIN   | MES_MIN |\n");
76    fprintf(Salida,"|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----
77    for(i=0;i<NAños;i++){
78      fprintf(Salida,"|%5d |", Año[i]);
79
80      for(j=0;j<12;j++){
81        fprintf(Salida," %7.2f |",Ventas[i][j]);
82      }
83
84      fprintf(Salida," %7.2f | %6.2f | %6.2f |   %2d    | %6.2f |   %2d
        ↪  |\n",Suma_An[i],Prom_An[i],Max_An[i],Mes_Max[i],Min_An[i],Mes_Min[i]);
85
86    }
87    fprintf(Salida,"|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----
88
89    fprintf(Salida,"| SUMA |");
90    for(i=0;i<12;i++){
91      fprintf(Salida,"%7.2f |",Suma_Mes[i]);
92    }
93
94    fprintf(Salida,"\n");
95    fprintf(Salida,"| PROM |");
96    for(i=0;i<12;i++){
97      fprintf(Salida," %7.2f |",Prom_Mes[i]);
98    }
99
100
101   fprintf(Salida,"\n\n");
102   fprintf(Salida,"| MAX  |");
103   for(i=0;i<12;i++){
104     fprintf(Salida," %7.2f |",Max_Mes[i]);
105   }
106
107   fprintf(Salida,"\n");
108   fprintf(Salida,"|AN_MAX|");
109   for(i=0;i<12;i++){
110     fprintf(Salida," %7d |",Año[Anio_Max[i]]);
111   }
112
113   fprintf(Salida,"\n\n");
114   fprintf(Salida,"| MIN  |");
115   for(i=0;i<12;i++){
116     fprintf(Salida," %7.2f |",Min_Mes[i]);
117   }
118
119   fprintf(Salida,"\n");
120   fprintf(Salida,"|AN_MIN|");
121   for(i=0;i<12;i++){
122     fprintf(Salida," %7d |",Año[Anio_Min[i]]);
```

```
123   }
124
125   fprintf(Salida,"\n");
126   fprintf(Salida,"|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----
127
128   fprintf(Salida,"\n|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
129   fprintf(Salida,"|   NUM   |   ENE   |   FEB   |   MAR   |   ABR   |   MAY   |   JUN   |   JUL   |   AGO   |
      ↪  SEP   |   OCT   |   NOV   |   DIC   |\n");
130   fprintf(Salida,"|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--
131   for(i=0;i<NAños;i++){
132     fprintf(Salida,"|   %3d   |",i+1);
133     for(j=0;j<12;j++){
134       fprintf(Salida," %7.2f |",VentasOrd[i][j]);
135     }
136     fprintf(Salida, "\n");
137   }
138   fprintf(Salida,"|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--
139   fprintf(Salida,"|   MED   |");
140   for(i=0;i<12;i++){
141     fprintf(Salida," %7.2f |",mediana[i]);
142   }
143   fprintf(Salida,"\n");
144   fprintf(Salida,"|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--
145   fclose(Entrada);
146   fclose(Salida);
147   return 0;
148 }
149
150 float sigma (int n, float x[]){
151   int k;
152   float suma;
153   suma = 0;
154   for(k=0;k<n;k++)
155     suma += x[k];
156   return suma;
157 }
158
159 int Maximo (int m, float y[]){
160   int k,max;
161   float big = -999999;
162   for(k=0;k<m;k++){
163     if(big<y[k]){
164       big = y[k];
165       max = k;
166     }
167   }
168   return max;
169 }
170
171 int Minimo (int p, float z[]){
172   int k,min;
173   float small = 999999;
174   for(k=0;k<p;k++){
175     if(small>z[k]){
176       small = z[k];
177       min = k;
178     }
179   }
180   return min;
181 }
182
183 void Ordena(){
184   int Arriba,Abajo;
185   float temp;
```

```
  for(Arriba = 0; Arriba < NAños-1; Arriba++){
    for(Abajo = Arriba+1; Abajo < NAños; Abajo++){
      if(Copia[Arriba] > Copia[Abajo]){
        temp = Copia[Arriba];
        Copia[Arriba] = Copia[Abajo];
        Copia[Abajo] = temp;
      }
    }
  }
}

float Mediana(){
  if(NAños%2 == 1){
    return Copia[NAños/2];
  }
  else{
    return (Copia[(NAños/2)-1] + Copia[NAños/2])/2;
  }
}
```

1.1 Archivo entrada

```
45
1981 570.82 694.06 83.39 910.62 736.53 894.5 813.63 223.46 838.45 783.1 935.84 135.04
1982 307.24 245.58 628.07 163.63 213.28 259.22 605.42 524.05 484.1 653.98 176.01 228.85
1983 118.55 318.82 48.24 747.8 877.41 944.4 618.84 903.71 645.3 117.35 565.21 108.19
1984 215.64 138.75 738.74 511.3 601.02 273.54 381.45 985.94 135.23 630.69 657.95 629.11
1985 805.81 882.58 88.99 457.68 390.04 524.23 252.52 395.24 197.01 107.22 552.31 370.58
1986 365.22 948.3 794.19 333.55 197.88 194.93 371.64 52.23 577.84 844.58 621.44 569.43
1987 637.44 606.44 918.44 857.4 251.09 734.56 790.75 703.21 306.01 207.24 260.59 914.25
1988 994.93 273.8 65.69 458.2 938.56 739.32 918.24 445.36 925.86 16.81 700.19 436.62
1989 674.21 583.61 576.56 122.47 226.55 974.46 387.57 939.23 773.95 510.55 124.81 556.19
1990 827.35 755.77 283.67 81.03 291.57 993.39 951.53 788.19 86.7 663.25 410.5 675.65
1991 441.58 67.76 743.11 587.22 849.95 609.23 397.82 242.77 804.18 18.02 32.75 300.51
1992 578.84 323.66 109.47 375.06 680.14 709.84 4.98 27.77 804.27 972.24 465.14 784.02
1993 361.14 300.08 387.27 848.56 905.2 268.41 506.62 106.13 631.19 33.06 475.27 316.34
1994 203.77 144.49 43.35 346.16 739.08 634.55 365.45 895.49 758.19 552.68 244.86 883.03
1995 673.81 190.39 933.21 625.0 424.85 377.38 464.36 978.42 257.82 359.28 198.47 96.57
1996 893.6 116.47 489.91 89.84 392.83 439.3 84.33 692.76 607.92 361.68 58.54 703.16
1997 557.16 622.47 935.47 67.95 77.38 373.85 580.59 555.24 481.02 864.48 240.12 935.94
1998 698.63 642.53 6.26 890.16 933.86 442.62 462.66 709.04 199.9 926.45 980.84 532.57
1999 158.85 609.89 707.84 640.62 728.78 41.19 352.11 249.07 767.94 200.17 960.4 678.49
2000 103.12 527.78 906.53 232.44 792.15 146.41 551.62 465.65 716.2 370.96 887.39 153.04
2001 248.11 631.37 195.33 686.27 997.85 451.58 224.13 285.23 308.65 284.04 368.55 617.71
2002 612.38 346.26 619.47 108.69 695.05 278.9 337.93 368.27 594.79 335.32 16.59 317.16
2003 12.6 546.48 815.23 414.52 440.24 931.98 855.07 929.27 501.62 964.65 494.02 281.5
2004 819.59 653.2 746.32 820.37 482.3 129.85 339.08 203.81 320.42 728.45 778.02 129.4
2005 81.03 370.97 555.42 607.32 381.33 647.11 563.31 585.3 478.48 847.33 79.16 238.67
2006 20.23 497.78 560.89 112.7 750.26 99.66 880.72 909.89 199.93 429.72 568.22 981.27
2007 290.46 854.59 948.67 520.82 400.78 889.32 754.27 358.17 728.31 19.32 831.85 275.67
2008 271.18 271.41 712.87 720.52 4.28 135.01 137.59 233.58 335.9 702.42 313.78 96.32
2009 5.55 265.25 227.8 988.69 889.48 978.57 321.43 992.74 684.15 180.94 583.09 324.42
2010 251.31 812.21 818.13 279.13 561.54 341.42 400.35 958.18 288.63 894.63 512.54 136.01
2011 576.1 319.12 389.75 965.24 94.41 586.99 226.07 269.53 350.36 198.71 428.48 460.05
2012 901.12 906.64 348.69 256.04 957.15 432.68 299.04 963.28 965.8 212.39 925.67 355.66
2013 252.03 255.03 149.71 729.9 40.69 420.82 961.97 149.29 848.98 813.61 666.15 497.79
2014 62.43 467.96 191.28 712.89 26.62 938.48 68.23 666.0 618.83 200.37 63.57 374.71
2015 130.1 864.0 445.45 890.68 356.01 925.56 368.36 441.5 232.4 748.98 793.13 339.1
2016 731.89 873.33 927.41 784.44 277.37 5.31 969.51 773.29 495.37 663.02 666.97 610.54
2017 808.2 4.8 587.94 564.08 757.05 412.9 47.84 610.33 728.52 722.14 354.74 111.92
2018 433.2 829.18 69.73 749.8 334.73 382.45 864.22 771.04 500.72 74.1 819.86 174.55
2019 992.77 610.91 164.29 481.21 728.71 966.95 215.25 89.15 85.79 736.26 577.09 922.13
2020 108.26 46.57 688.24 111.27 1.07 212.9 371.37 806.47 782.27 786.19 138.98 924.5
2021 443.57 627.76 276.02 13.91 472.14 725.34 17.56 78.89 155.77 13.97 910.22 735.69
2022 104.8 288.99 245.3 816.58 880.62 215.44 661.07 48.0 458.62 52.6 695.55 821.47
2023 211.12 70.37 489.64 439.15 677.15 989.61 278.89 962.3 903.93 87.33 614.39 323.12
2024 592.53 897.67 436.47 228.39 537.62 594.28 710.7 439.35 799.15 566.87 52.22 883.59
2025 888.76 381.19 2.75 60.06 720.02 626.62 681.16 246.8 187.42 261.85 756.38 291.21
```

1.2 Archivo de salida

An~o	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	SUMA	PROM	MAX	MES_MAX	MIN	MES_MIN
1981	570.82	694.06	83.39	910.62	736.53	894.50	813.63	223.46	838.45	783.10	935.84	135.04	7619.44	634.95	935.84	10	83.39	2
1982	307.24	245.58	628.07	163.63	213.28	259.22	605.42	524.05	484.10	653.98	176.01	228.85	4489.43	374.12	653.98	9	163.63	3
1983	118.55	318.82	48.24	747.80	877.41	944.40	618.84	903.71	645.30	117.35	565.21	108.19	6013.82	501.15	944.40	5	48.24	2
1984	215.64	138.75	738.74	511.30	601.02	273.54	381.45	985.94	135.23	630.69	657.95	629.11	5899.36	491.61	985.94	7	135.23	8
1985	805.81	882.58	88.99	457.68	390.04	524.23	252.52	395.24	197.01	107.22	552.31	370.58	5024.21	418.68	882.58	1	88.99	2
1986	365.22	948.30	794.19	333.55	197.88	194.93	371.64	52.23	577.84	844.58	621.44	569.43	5871.23	489.27	948.30	1	52.23	7
1987	637.44	606.44	918.44	857.40	251.09	734.56	790.75	703.21	306.01	207.24	260.59	914.25	7187.42	598.95	918.44	2	207.24	9
1988	994.93	273.80	65.69	458.20	938.56	739.32	918.24	445.36	925.86	16.81	700.19	436.62	6913.58	576.13	994.93	0	16.81	9
1989	674.21	583.61	576.56	122.47	226.55	974.46	387.57	939.23	773.95	510.55	124.81	556.19	6450.16	537.51	974.46	5	122.47	3
1990	827.35	755.77	283.67	81.03	291.57	993.39	951.53	788.19	86.70	663.25	410.50	675.65	6808.60	567.38	993.39	5	81.03	3
1991	441.58	67.76	743.11	587.22	849.95	609.23	397.82	242.77	804.18	18.02	32.75	300.51	5094.90	424.58	849.95	4	18.02	9
1992	578.84	323.66	109.47	375.06	680.14	709.84	4.98	27.77	804.27	972.24	465.14	784.02	5835.43	486.29	972.24	9	4.98	6
1993	361.14	300.08	387.27	848.56	905.20	268.41	506.62	106.13	631.19	33.06	475.27	316.34	5139.27	428.27	905.20	4	33.06	9
1994	203.77	144.49	43.35	346.16	739.08	634.55	365.45	895.49	758.19	552.68	244.86	883.03	5811.10	484.26	895.49	7	43.35	2
1995	673.81	190.39	933.21	625.00	424.85	377.38	464.36	978.42	257.82	359.28	198.47	96.57	5579.56	464.96	978.42	7	96.57	11
1996	893.60	116.47	489.91	89.84	392.83	439.30	84.33	692.76	607.92	361.68	58.54	703.16	4930.34	410.86	893.60	0	58.54	10
1997	557.16	622.47	935.47	67.95	77.38	373.85	580.59	555.24	481.02	864.48	240.12	935.94	6291.67	524.31	935.94	11	67.95	3
1998	698.63	642.53	6.26	890.16	933.86	442.62	462.66	709.04	199.90	926.45	980.84	532.57	7425.52	618.79	980.84	10	6.26	2
1999	158.85	609.89	707.84	640.62	728.78	41.19	352.11	249.07	767.94	200.17	960.40	678.49	6095.35	507.95	960.40	10	41.19	5
2000	103.12	527.78	906.53	232.44	792.15	146.41	551.62	465.65	716.20	370.96	887.39	153.04	5853.29	487.77	906.53	2	103.12	0
2001	248.11	631.37	195.33	686.27	997.85	451.58	224.13	285.23	308.65	284.04	368.55	617.71	5298.82	441.57	997.85	4	195.33	2
2002	612.38	346.26	619.47	108.69	695.05	278.90	337.93	368.27	594.79	335.32	16.59	317.16	4630.81	385.90	695.05	4	16.59	10
2003	12.60	546.48	815.23	414.52	440.24	931.98	855.07	929.27	501.62	964.65	494.02	281.50	7187.18	598.93	964.65	9	12.60	0
2004	819.59	653.20	746.32	820.37	482.30	129.85	339.08	203.81	320.42	728.45	778.02	129.40	6150.81	512.57	820.37	3	129.40	11
2005	81.03	370.97	555.42	607.32	381.33	647.11	563.31	585.30	478.48	847.33	79.16	238.67	5435.43	452.95	847.33	9	79.16	10
2006	20.23	497.78	560.89	112.70	750.26	99.66	880.72	909.89	199.93	429.72	568.22	981.27	6011.27	500.94	981.27	11	20.23	0
2007	290.46	854.59	948.67	520.82	400.78	889.32	754.27	358.17	728.31	19.32	831.85	275.67	6872.23	572.69	948.67	2	19.32	9
2008	271.18	271.41	712.87	720.52	4.28	135.01	137.59	233.58	335.90	702.42	313.78	96.32	3934.86	327.90	720.52	3	4.28	4
2009	5.55	265.25	227.80	988.69	889.48	978.57	321.43	992.74	684.15	180.94	583.09	324.42	6442.11	536.84	992.74	7	5.55	0
2010	251.31	812.21	818.13	279.13	561.54	341.42	400.35	958.18	288.63	894.63	512.54	136.01	6254.08	521.17	958.18	7	136.01	11
2011	576.10	319.12	389.75	965.24	94.41	586.99	226.07	269.53	350.36	198.71	428.48	460.05	4864.81	405.40	965.24	3	94.41	4
2012	901.12	906.64	348.69	256.04	957.15	432.68	299.04	963.28	965.80	212.39	925.67	355.66	7524.16	627.01	965.80	8	212.39	9
2013	252.03	255.03	149.71	729.90	40.69	420.82	961.97	149.29	848.98	813.61	666.15	497.79	5785.97	482.16	961.97	6	40.69	4
2014	62.43	467.96	191.28	712.89	26.62	938.48	68.23	666.00	618.83	200.37	63.57	374.71	4391.37	365.95	938.48	5	26.62	4
2015	130.10	864.00	445.45	890.68	356.01	925.56	368.36	441.50	232.40	748.98	793.13	339.10	6535.27	544.61	925.56	5	130.10	0
2016	731.89	873.33	927.41	784.44	277.37	5.31	969.51	773.29	495.37	663.02	666.97	610.54	7778.45	648.20	969.51	6	5.31	5
2017	808.20	4.80	587.94	564.08	757.05	412.90	47.84	610.33	728.52	722.14	354.74	111.92	5710.46	475.87	808.20	0	4.80	1
2018	433.20	829.18	69.73	749.80	334.73	382.45	864.22	771.04	500.72	74.10	819.86	174.55	6003.58	500.30	864.22	6	69.73	2
2019	992.77	610.91	164.29	481.21	728.71	966.95	215.25	89.15	85.79	736.26	577.09	922.13	6570.51	547.54	992.77	0	85.79	8
2020	108.26	46.57	688.24	111.27	1.07	212.90	371.37	806.47	782.27	786.19	138.98	924.50	4978.09	414.84	924.50	11	1.07	4
2021	443.57	627.76	276.02	13.91	472.14	725.34	17.56	78.89	155.77	13.97	910.22	735.69	4470.84	372.57	910.22	10	13.91	3
2022	104.80	288.99	245.30	816.58	880.62	215.44	661.07	48.00	458.62	52.60	695.55	821.47	5289.04	440.75	880.62	4	48.00	7
2023	211.12	70.37	489.64	439.15	677.15	989.61	278.89	962.30	903.93	87.33	614.39	323.12	6047.00	503.92	989.61	5	70.37	1
2024	592.53	897.67	436.47	228.39	537.62	594.28	710.70	439.35	799.15	566.87	52.22	883.59	6738.84	561.57	897.67	1	52.22	10
2025	888.76	381.19	2.75	60.06	720.02	626.62	681.16	246.80	187.42	261.85	756.38	291.21	5104.22	425.35	888.76	0	2.75	2
SUMA	20037.03	21686.27	21101.20	22409.37	23712.62	23895.06	21417.25	24022.62	23553.89	20719.00	22557.85	21231.74						
PROM	445.27	481.92	468.92	497.99	526.95	531.00	475.94	533.84	523.42	460.42	501.29	471.82						
MAX	994.93	948.30	948.67	988.69	997.85	993.39	969.51	992.74	965.80	972.24	980.84	981.27						
AN_MAX	1988	1986	2007	2009	2001	1990	2016	2009	2012	1992	1998	2006						
MIN	5.55	4.80	2.75	13.91	1.07	5.31	4.98	27.77	85.79	13.97	16.59	96.32						
AN_MIN	2009	2017	2025	2021	2020	2016	1992	1992	2019	2021	2002	2008						

1.2.1 Mediana

NUM	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
1	5.55	4.80	2.75	13.91	1.07	5.31	4.98	27.77	85.79	13.97	16.59	96.32
2	12.60	46.57	6.26	60.06	4.28	41.19	17.56	48.00	86.70	16.81	32.75	96.57
3	20.23	67.76	43.35	67.95	26.62	99.66	47.84	52.23	135.23	18.02	52.22	108.19
4	62.43	70.37	48.24	81.03	40.69	129.85	68.23	78.89	155.77	19.32	58.54	111.92
5	81.03	116.47	65.69	89.84	77.38	135.01	84.33	89.15	187.42	33.06	63.57	129.40
6	103.12	138.75	69.73	108.69	94.41	146.41	137.59	106.13	197.01	52.60	79.16	135.04
7	104.80	144.49	83.39	111.27	197.88	194.93	215.25	149.29	199.90	74.10	124.81	136.01
8	108.26	190.39	88.99	112.70	213.28	212.90	224.13	203.81	199.93	87.33	138.98	153.04
9	118.55	245.58	109.47	122.47	226.55	215.44	226.07	223.46	232.40	107.22	176.01	174.55
10	130.10	255.03	149.71	163.63	251.09	259.22	252.52	233.58	257.82	117.35	198.47	228.85
11	158.85	265.25	164.29	228.39	277.37	268.41	278.89	242.77	288.63	180.94	240.12	238.67
12	203.77	271.41	191.28	232.44	291.57	273.54	299.04	246.80	306.01	198.71	244.86	275.67
13	211.12	273.80	195.33	256.04	334.73	278.90	321.43	249.07	308.65	200.17	260.59	281.50
14	215.64	288.99	227.80	279.13	356.01	341.42	337.93	269.53	320.42	200.37	313.78	291.21
15	248.11	300.08	245.30	333.55	381.33	373.85	339.08	285.23	335.90	207.24	354.74	300.51
16	251.31	318.82	276.02	346.16	390.04	377.38	352.11	358.17	350.36	212.39	368.55	316.34
17	252.03	319.12	283.67	375.06	392.83	382.45	365.45	368.27	458.62	261.85	410.50	317.16
18	271.18	323.66	348.69	414.52	400.78	412.90	368.36	395.24	478.48	284.04	428.48	323.12
19	290.46	346.26	387.27	439.15	424.85	420.82	371.37	439.35	481.02	335.32	465.14	324.42
20	307.24	370.97	389.75	457.68	440.24	432.68	371.64	441.50	484.10	359.28	475.27	339.10
21	361.14	381.19	436.47	458.20	472.14	439.30	381.45	445.36	495.37	361.68	494.02	355.66
22	365.22	467.96	445.45	481.21	482.30	442.62	387.57	465.65	500.72	370.96	512.54	370.58
23	433.20	497.78	489.64	511.30	537.62	451.58	397.82	524.05	501.62	429.72	552.31	374.71
24	441.58	527.78	489.91	520.82	561.54	524.23	400.35	555.24	577.84	510.55	565.21	436.62
25	443.57	546.48	555.42	564.08	601.02	586.99	462.66	585.30	594.79	552.68	568.22	460.05
26	557.16	583.61	560.89	587.22	677.15	594.28	464.36	610.33	607.92	566.87	577.09	497.79
27	570.82	606.44	576.56	607.32	680.14	609.23	506.62	666.00	618.83	630.69	583.09	532.57
28	576.10	609.89	587.94	625.00	695.05	626.62	551.62	692.76	631.19	653.98	614.39	556.19
29	578.84	610.91	619.47	640.62	720.02	634.55	563.31	703.21	645.30	663.02	621.44	569.43
30	592.53	622.47	628.07	686.27	728.71	647.11	580.59	709.04	684.15	663.25	657.95	610.54
31	612.38	627.76	688.24	712.89	728.78	709.84	605.42	771.04	716.20	702.42	666.15	617.71
32	637.44	631.37	707.84	720.52	736.53	725.34	618.84	773.29	728.31	722.14	666.97	629.11
33	673.81	642.53	712.87	729.90	739.08	734.56	661.07	788.19	728.52	728.45	695.55	675.65
34	674.21	653.20	738.74	747.80	750.26	739.32	681.16	806.47	758.19	736.26	700.19	678.49
35	698.63	694.06	743.11	749.80	757.05	889.32	710.70	895.49	767.94	748.98	756.38	703.16
36	731.89	755.77	746.32	784.44	792.15	894.50	754.27	903.71	773.95	783.10	778.02	735.69
37	805.81	812.21	794.19	816.58	849.95	925.56	790.75	909.89	782.27	786.19	793.13	784.02
38	808.20	829.18	815.23	820.37	877.41	931.98	813.63	929.27	799.15	813.61	819.86	821.47
39	819.59	854.59	818.13	848.56	880.62	938.48	855.07	939.23	804.18	844.58	831.85	883.03
40	827.35	864.00	906.53	857.40	889.48	944.40	864.22	958.18	804.27	847.33	887.39	883.59
41	888.76	873.33	918.44	890.16	905.20	966.95	880.72	962.30	838.45	864.48	910.22	914.25
42	893.60	882.58	927.41	890.68	933.86	974.46	918.24	963.28	848.98	894.63	925.67	922.13
43	901.12	897.67	933.21	910.62	938.56	978.57	951.53	978.42	903.93	926.45	935.84	924.50
44	992.77	906.64	935.47	965.24	957.15	989.61	961.97	985.94	925.86	964.65	960.40	935.94
45	994.93	948.30	948.67	988.69	997.85	993.39	969.51	992.74	965.80	972.24	980.84	981.27
MED	433.20	497.78	489.64	511.30	537.62	451.58	397.82	524.05	501.62	429.72	552.31	374.71