

```
#include <iostream>
#include <cmath>
#include <fstream>
using namespace std;
void ran_gen(int *);
void mean_compute(int *, double *);
void my_output(int *, double *);
```

```
void main()
{
```

```
    int ran[100];
    double mean_of_num = 0.0;
    //calling the function
    randomize();
    //Generating 1000 random numbers
    ran_gen(ran);
```

```
    //computing the average of 100 numbers
    mean_compute(ran, &mean_of_num);
```

```
    //Generating all the 100 numbers
```

```
    my_output(ran, &mean_of_num);
```

```
    char c1 ;
    cin>>c1;
```

```
}
void ran_gen(int *p1)
{
```

```
    for(int g = 0;g<100;g++)
    {
```

```
        *p1 = rand()%(75-50)+50;
        p1++;
```

```
    }
```

```
}
```

```
void mean_compute(int * p2, double *p3)
{
```

```
    double total = 0;
    for (int gg = 0; gg < 100; gg++)
    {
        total += *p2;
        p2++;
    }
    *p3 = total / 100;
```

```
}
```

```
void my_output(int *p4, double *p5)
{
```

```
    ofstream my_file_output;
    my_file_output.open("H:\\rashed\\fff.txt");
    cout<<" Now writing information to the file.\n";
```

Grave
-BAD-

```

for(int g= 0; g <100; g++)
{
    cout <<(g)<<" "<<(*p4)<<"="<<(g*(*p4))<<endl ;
    my_file_output<<(g*(*p4))<<"\n";
    p4++;
}
my_file_output.close();
cout<<" \n\n the joke is  If you're American when you go into the bathroom, and American

cout<<" \n\n The mean of the above 100 numbers is : "<<*p5<<endl;

```

}

/* 1-

71
70
63
73
73
53
58
68
50
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70
62
61
71
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72
71
66
63
54
74
68
60
58
50
73
66
71
58
72
57
56
70
55

/* 3-
0*71=0
1*70=70
2*63=126
3*73=219
4*73=292
5*53=265
6*58=348
7*68=476
8*50=400
9*53=477
10*70=700
11*62=682
12*61=732
13*71=923
14*55=770
15*60=900

16*57=912
17*59=1003
18*50=900
19*52=988
20*55=1100
21*64=1344
22*52=1144
23*50=1150
24*66=1584
25*56=1400
26*60=1560
27*51=1377
28*71=1988
29*51=1479
30*68=2040
31*65=2015
32*67=2144
33*68=2244
34*62=2108
35*59=2065
36*54=1944
37*57=2109
38*53=2014
39*67=2613
40*54=2160
41*67=2747
42*66=2772
43*54=2322
44*59=2596
45*55=2475
46*53=2438
47*64=3008
48*69=3312
49*63=3087
50*67=3350
51*71=3621
52*66=3432
53*56=2968
54*51=2754
55*57=3135
56*50=2800
57*68=3876
58*63=3654
59*62=3658
60*58=3480
61*65=3965
62*67=4154
63*73=4599
64*69=4416
65*63=4095
66*70=4620
67*67=4489
68*54=3672
69*53=3657
70*63=4410
71*66=4686
72*68=4896
73*60=4380
74*69=5106
75*70=5250
76*72=5472
77*63=4851
78*70=5460
79*62=4898
80*61=4880
81*72=5832
82*71=5822
83*66=5478

84*63=5292
85*54=4590
86*74=6364
87*68=5916
88*60=5280
89*58=5162
90*50=4500
91*73=6643
92*66=6072
93*71=6603
94*58=5452
95*72=6840
96*57=5472
97*56=5432
98*70=6860
99*55=5444

5-

Now writing information to the file.

0*52=0
1*66=66
2*52=104
3*65=195
4*57=228
5*61=305
6*60=360
7*56=392
8*66=528
9*74=666
10*57=570
11*68=748
12*66=792
13*60=780
14*51=714
15*65=975
16*66=1056
17*55=935
18*53=954
19*59=1121
20*73=1460
21*54=1134
22*58=1276
23*55=1265
24*50=1200
25*64=1600
26*57=1482
27*57=1539
28*54=1512
29*68=1972
30*60=1800
31*63=1953
32*69=2208
33*53=1749
34*70=2380
35*57=1995
36*65=2340
37*70=2590
38*67=2546
39*62=2418
40*70=2800
41*56=2296
42*58=2436
43*65=2795
44*63=2772
45*71=3195
46*71=3266
47*64=3008
48*71=3408

49*64=3136
50*50=2500
51*65=3315
52*58=3016
53*52=2756
54*67=3618
55*67=3685
56*69=3864
57*70=3990
58*53=3074
59*51=3009
60*59=3540
61*52=3172
62*68=4216
63*54=3402
64*60=3840
65*56=3640
66*57=3762
67*61=4087
68*60=4080
69*69=4761
70*70=4900
71*61=4331
72*70=5040
73*74=5402
74*67=4958
75*74=5550
76*71=5396
77*50=3850
78*59=4602
79*52=4108
80*65=5200
81*71=5751
82*62=5084
83*61=5063
84*55=4620
85*67=5695
86*50=4300
87*62=5394
88*73=6424
89*66=5874
90*65=5850
91*64=5824
92*57=5244
93*62=5766
94*74=6956
95*66=6270
96*51=4896
97*74=7178
98*64=6272
99*57=5643

the joke is If you're American when you go into the bathroom, and American when you come out, what are you when you're in the bathroom?

The mean of the above 100 numbers is : 62

*/