

```
1. #include <stdio.h>
2. #include <stdlib.h>
3. #include <math.h>
4.
5. double
6. fx0(int m, int n, double p)
7. {
8.     double res;
9.     res = ((double)m - p*n)/sqrt(p*n*(1-p));
10.    return res;
11. }
12.
13. double
14. fi(double x)
15. {
16.     double res;
17.     res = exp(-x*x/2);
18.     res /= sqrt(2*M_PI);
19.     return res;
20. }
21.
22. int
23. main(void)
24. {
25.     int m,n;
26.     double p;
27.     printf("Введите m,n:\n");
28.     scanf("%d %d",&m,&n);
29.     printf("Введите вероятность:\n");
30.     scanf("%lf",&p);
31.     double x0 = fx0(m,n,p);
32.     printf("x0 = (%d - %d*%.5lf)/sqrt(%d*%.5lf*%.5lf) = %.5lf\n",m,n,p,n,p,1-p,x0);
33.     double res = fi(x0);
34.     printf("fi(x0) = 1/sqrt(2*pi) * exp(-%.5lf^2/2) = %.5lf\n",x0,res);
35.     res /= sqrt(p*n*(1-p));
36.     printf("P%d(%d) = fi(%.5lf)/sqrt(%d*%d*%.5lf) = %.5lf\n",n,m,x0,n,m,1-p,res);
37.     return 0;
38. }
```