

```
1 #include "Combinations.h"
2
3 void Combinations::calculation(int n, int r)
4 {
5     top = n;
6     for (int i = n - 1; i >= 1; i--)
7     {
8         top *= i;
9     }
10    bottom = n - r;
11    for (int j = 1; j < n - r; j++)
12    {
13        bottom *= j;
14    }
15    bottom2 = r;
16    for (int k = r - 1; k >= 1; k--)
17    {
18        bottom2 *= k;
19    }
20    answer = (top / (bottom * bottom2));
21    cout << answer;
22 }
23
```