

```
1 #include "Combination.h"
2
3 Combination::Combination(size_t aN, size_t aK) : fN(aN), fK(aK)
4 {}
5
6 size_t Combination::getN() const
7 {
8     return fN;
9 }
10
11 size_t Combination::getK() const
12 {
13     return fK;
14 }
15
16 unsigned long long Combination::operator()() const
17 {
18     if (fK > fN) return 0ll;
19     unsigned long long Result = 1;
20
21     for (size_t i = 0; i < fK; i++) {
22         Result *= (fN - i);
23         Result /= (i + 1);
24     }
25
26     return Result;
27 }
```