Krok 1

$$C(P, k) = C(P - 1, k) + C(P, k - 1)$$

Krok 2

```java
public static void main(String[] args) {
    int k = 3;
    int p = 4;
    int result = 0;
    for(int i = 0; i <= p; i++) {
        result += combination(i,k-1);
    }
    System.out.println(result);
}

  private static long fact(int x) {
     int result = x;
     if(x == 0)
          return 1;
     for (int i = x - 1; i > 0; i--) {
         result *= i;
     }
     return result;
  }

  private static long combination(int p, int k) {
      return fact(p + k - 1) / (fact(k - 1) * fact(p));
  }
```

Krok 3

K/P	0	1	2	3
0	0	1	1	1
1	?	1	2	3
2	?	1	3	6
3	?	1	4	10
4	?	1	5	15