

21800500 이고은

```
1. C(n,k){
    if(n=k)
        return 1
    else if(n>=0 and k=0)
        return 1
    else if(n>0 and k>0)
        return C(n-1,k-1)+C(n-1,k)
    else
        print "incorrect input"
        terminate
}

2. C(n,k){
    for i <- 1 to n+1
        for j <- 1 to k+1
            C(i,j) = -1
            (Initialize the table with -1)
    for i <- 1 to n+1
        C(0,i) <- 0
    for i <- 1 to k+1
        C(i,i) <- 1
    for i <- 1 to n+1
        C(i,0) <- 1
    for i <- 2 to n+1
        for j <- 2 to k+1
            if(C(i,j) = -1)
                (If C(i,j) is empty)
                then C(i,j) <- C(i-1,j-1) + C(i-1,j)
}
```