```
1. Computing the binomial Coefficient
                                                        n C k

(m) : b that k shirts

out of m objects

int A C k

(m) : C k

that A k

(m) C k

(m) 
                                           \begin{pmatrix} n \\ k \end{pmatrix} : \begin{pmatrix} n_{k+1} \\ k \end{pmatrix} + \begin{pmatrix} n_{k+1} \\ k \end{pmatrix} & 0 \le k \le n \\ \frac{1}{k} & k \ge 0 \text{ or } k \ge n \\ 0 & \text{otherwise}  
                                  int select (n, k) . \{

if k = 0 or k = n

else subset (select (n_1, k_1))

subset (select (n_1, k_1))
                Divide and Gorguer Dynamic Programming
                                                                                                                                                 . Bothern Up
                                                                                                                                               - Aubvert redundant
Aub-problems
Henneyth memorisation
                        - Call-Sheek (inglish) - Manus Pacadak
For altonia
Indonenialise has
                          - Recursive
              Tendering Change:
          1 - 8 milti

Croshs: ( ) ( ) ( ) - 8

3 coins.

3 years : ( ) ( ) = 8

\[
\text{min(+0, 1+ \(\text{T(11)}\)}
\]
\[
\text{min(+0, 1+ (\frac{1}{2}) from both to the conditions of the condit
T(2,4) (- min(T(1,4), 1+T(2,0))

    ← min(4, 1)
    ⊤[2,4] ← 1

            tender Change (amount, D) {
                    T[1... 101 , 0.... amount]
                      for i∈ 1 to 101
T[i,0)∈0
                            for 1 € 1 h 101 {
                                          for j (-1 to amount {
                                                                      if (i = 1) and j \in D(i))

Such that (i = 1) if

(i = 1) if

(i = 1) if

T(ij) \in (1 + T(X, j - D(i))
                                                                        else if (j < D(i)) {
T(i,j) \in T \text{ i.e., } j \text{ } j
else
T(i,j) \in \min_{i \in I} T(i-j,j) = \min_{i \in I} T(i-j,j) = D(i,j)
            patron T(D), amount);
                      T(IDI, amount): O(IDI x amount)
                        S(D), amount): O(D(x amount)
```