```
Dynamic Programmiy
                           0/1 Knapsack problem
                           \max_{j \in \mathcal{J}} \frac{\mathcal{J}_j \mathcal{U}}{\mathcal{J}_j} \leq \mathcal{U}
\max_{j \in \mathcal{J}_j} \frac{\mathcal{J}_j \mathcal{J}_j}{\mathcal{J}_j} \leq \mathcal{U}
\max_{j \in \mathcal{J}_j} \frac{\mathcal{J}_j \mathcal{J}_j}{\mathcal{J}_j} \leq \mathcal{U}
                        T(5,10) < max(T(4,10),
                                                             (2) T(4,5) \in \max(T(3,3), T(3,3-6)+24)
                  T(n, W) = O(nW) - for filling me table.
                                                          T(2,3-5)+18)
                  T(n): O(n) - for backtracking (4) T[2,3) < max(T[1,3)
                                                            (T(1,3-2)+6)
Eman(1,7)
                                                   (5) T[1,1) < max(T(0,1),
T[0,1-1)+1)
                                                  (6) T[A]) ×
                                                P= (M, M) M, My
                      M, - 13 x (5)
                     M2 _ (5)(89)
                     M3 - €3 x ③
                     My -3x34
                               0,
                                            #16/92
                    # Malar
                                              xx = 13xxx34 + 2x 84x3 + 1x 3 x 34
              () axb bxc
             (m, m) (m3 m4)
                                                    scar multipliations
       4. m_1 ((m_2 m_3) m_4)
5. m_1 (m_2 (m_3 m_4))
                                                Catalan
Recurrian
                                                                             "helps) [
              2 3 4 5 .... 10 ... 15
T(n) 1 1 2 5
                                                  4862 2674440
                                                         Catalan number
                            Brute force!
```