Algorithm Design & Analysis (CSE222)

Lecture-7

W = } } Fib (n): if n=1 Retur 0 if n=2 Rehn 1 if M(n) is not empty. M(v)else m(n) = Fib(n-1) + Fib(n-2) Return M(n)

0,1,1,2,3,5, --. Film -> Film (m) -> Film-2) Running: () (n).

```
Ilp: n balls (weighted), ordered), W:B-Nt
      B = b_1 b_2 b_3, \ldots b_n
Goal: Find B'CB St. for every (Si Snt, the of Si, Sin) EB
      ¿ w Us) is maximized.
              5, b2 b3 b4 b5 b6
1 5 8 5 4 7
         iter 1: WB = 189
          iter 2: W(0)=18,75
          iter 3: W(Q') = 18,7,17
```