

Minimization Example

$P(0), P(1), P(2), P(3), P(4), P(5), P(6)$
 F F F T F T F

Now $g(y) = \sum_{u=0}^y \prod_{t=0}^u P(t) \sim P(t)$ Note $y=6$

Note $g(y)$ in case above should be 3
 because $P(3)$ is the min T.
 or $t=3$

Note We want $\min_{t \leq y} P(t) = g(y)$, (by definition)

To compute $g(y)$ for $y=6$, we first
 find all the \prod values. Then we will
 sum the values through 6.

$$\prod_0^0 () = 1 \quad \sum_0^0 \text{ ~~g(t)~~ } = 1$$

$$\prod_0^1 () = 1 \quad \sum_0^1 = 2$$

$$\prod_0^2 () = 1 \quad \sum_0^2 = 3$$

$$\prod_0^3 () = 0 \quad \sum_0^3 = 3$$

$$\prod_0^4 () = 0 \quad \sum_0^4 = 3$$

$$\prod_0^5 () = 0 \quad \sum_0^5 = 3$$

$$\prod_0^6 () = 0 \quad \sum_0^6 = 3$$