Example of production problem.

\[ H = 3, \quad n = 5, \quad c(x) = 18x - x^3. \]

\[ d_i = 4, \quad \forall i \]

\[ f_r(i) = \min_x \left[ c(x) + \sum_{r=1}^{i} \left( i + x - d_r \right) \right] \]
Add a holding cost: \( h(i, x) \)

\[
f_r(i) = \min \left\{ C(X) + h(i, x) + f_{r+1}(i+x-d_r) \right\}
\]

Suppose unmet demand is \( T_i \) per item per period — forget holding cost.

\[
f_r(i) = \min \left\{ C(X) + T_i(d_r - (i+x)) + f_{r+1}(i+x-d_r) \right\}
\]