CLRS 15-2

Peter Danenberg

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Let $e[i,j]=M-(j-i)-\sum_{k=i}^{j}l_k;$ let l[i,j] be the cost of including a line containing words i through j. Then:

$$l[i,j] = \begin{cases} e[i,j] < 0 \to \infty \\ j = n \to 0 \\ \text{otherwise} \to e[i,j]^3 \end{cases}$$

Let c[i,j] be the cost of an optimal arrangement of words $1,\ldots,j$:

$$c[i,j] = \left\{ \begin{aligned} j &= 0 \to 0 \\ j &> 0 \to \min_{1 \leq i \leq j} (c[i-1] + l[i,j]) \end{aligned} \right.$$

p[i,j] keeps track of the choices made to produce c[i,j].