Reading Quiz #8

1 This is a preview of the published version of the quiz

Started: Nov 1 at 2:16p.m.

Quiz Instructions

Read section 6.6 in your textbook. This quiz is short because of Thursday's midterm.

| Question 1 | 1 pts |
|--|-------|
| Section 6.6: Sequence Alignment | |
| Given n -character sequence X and m-character sequence Y, we can sequence alignment with dynamic programming by constructing a $(n+1)\times(m+1)$ matrix F. For an example of such matrix, look at figor page 284 of your textbook. What is the value of $F(i,j)$ of the above matrix? | |
| ○ Minimum alignment cost of X[1i] and Y[1j] | |
| Maximum cost of a path from (0,0) to (i,j) in the corresponding graph of | of F. |
| ○ Maximum number of matched characters in X[1i] , Y[1j] | |
| None of the above | |

Question 2 1 pts

Section 6.6 Sequence Alignment

When the algorithm computes the entry $F\left(i,j\right)$ of the matrix, which other entries does it need to access?

 $\bigcirc F(i-1,j)$ and F(i,j-1).

- $\bigcirc F(i-1,j)$, F(i,j-1) and F(i-1,j-1).
- \bigcirc All entries of the form F(i-k,j-1) where $1 \leq k \leq i-1$ and F(i-1,j-l) where $1 \leq l \leq j-1$.
- \bigcirc All entries of the form F(k,l) where $1 \leq k \leq i-1$ and $1 \leq l \leq j-1$.

No new data to save. Last checked at 2:17pm

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