**CS 476 Bioinformatics Algorithms FA22**

**Project I: Sequence Alignment and Substitution Matrices (UG&G /G)**

**Grading Guideline**

|  |  |
| --- | --- |
| Description | Pts. (UG/G) + EC |
| Demo: |  |
| Upload program to home server | 4 |
| Compile and run program without error | 4 |
| Correct alignment and sufficient explanation | 4 |
|  |  |
| Code: |  |
| Code comments: | 5 |
| Read sequences and matrices correctly | 2 |
| Global: correct OPT matrix, and alignment in O(n2) time | 27/18 |
| Local: correct OPT matrix, and alignment in O(n2) time | 27/18 |
| Semi-global: correct OPT matrix, and alignment in O(n2) time | 27/18 |
| affine: correct OPT matrix, and alignment in O(n2) time | 0/27 |
|  |  |
| Extra Credit (Optional)： |  |
| PAM Mutation | 6 |
| Translation | 6 |
|  |  |
| Total | 100 +12 |
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