**Dynamic Programming Project**

**CSCI406 | Dr. Mehta | Section A**

**404 Error: Team Name Not Found**

**Alex Pollock | Tyler Zudans | Huiru Li**

1. Devise a dynamic programming algorithm that optimizes the number of terabytes processed.
2. Theory: Derive the complexity of your algorithm in terms of n.
3. Implementation: Implement your dynamic programming and traceback algorithms and include your (well-written and documented) code
4. Implementation: Demonstrate that your code works correctly by showing its results on the following instance.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Day | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| X | 20 | 80 | 20 | 60 | 20 | 60 | 80 | 10 | 40 | 10 |
| s | 100 | 90 | 50 | 45 | 40 | 35 | 20 | 15 | 10 | 5 |

365

20 80 20 45 0 60 80 10 40 10