

**United International University (UIU)**

**Dept. of Computer Science & Engineering (CSE)**

Course Code: CSI 228

You are working as a part-time programmer where you have to prioritize and choose tasks for your boss Mr. Tom so that your boss’s earns the maximum possible amount each day. Each day in the morning Mr. Tom informs you

how many free hours he has that day which is .

Then he informs that he received tasks from clients.

Then for each task , he tells you the client’s name’s first letter how many hours it will take to complete () and what is the payment ().

The client will pay him only if he can complete the task that day.

You have to write a code **using tabulation method** to choose tasks for that day so that your boss can earn the maximum possible amount that day. **You have to print the maximum amount Mr. Tom can earn that day.**

**Bonus: Print the tasks you have chosen – 2 Marks**

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| **Sample Input**  **…** | **Sample Output** |
| 5  5  A 2 6000  B 2 1000  C 1 1200  D 2 2000  E 1 3000 | 11000  **E**  **D**  **A** |
| 5  4  B 2 1000  C 1 1200  D 2 2000  E 1 3000 | 6200  **E**  **D**  **C** |