Output:

The program shows the path between the agent cell and the target cell. Blocked cells are displayed as "X", the Agent cell as "A", the target cell as "T" and the cells on the path are displayed by ".". Other cells are displayed as single white space. In the end the program displays the cost of traversing from agent cell to target cell through the path determined by the search strategy selected. The following figure shows an example of the output:

```
01234
ath cost: 76
```

Running the program:

To run the program, use the following command: python searchPath.py -i inputfile name -s search strategy where, inputfile name is the name of the input file. search strategy is the selected search strategy (1=BFS and 2=UCS)

The following command shows an example where it selects "inputfile0.txt" as the input file and BFS as the search strategy: python searchPath.py –i inputfile0.txt –s 1

NOTES:

- 1) You can download the python program and input files from the course website (https://courses.uscden.net/d2l/home/7593). Under the "Content" tab find "Homework". Under that you will find all the files in "HW1" folder.
- 2) We use Python 2.7 for this implementation. (https://www.python.org/download/releases/2.7/)
- 3) The program assumes that the input files are in the same folder as the program.