

This series of strings will be displayed on the screen. The contents of the strings are just ASCII characters, but different characters represent different objects. The list of objects is given here:

Symbol	Name	Represents
#	cardinal number, pound or hash symbol	Wall
@	at symbol	your character
P	letter P	Poison
T	letter T	Tonic
[]	space between two square brackets	The exit

The list of expected inputs and actions is given here:

Key	Name	Expected action
←	Left arrow	If possible, character moves left one cell
→	Right arrow	If possible, character moves right one cell
↑	Up arrow	If possible, character moves up one cell
↓	Down arrow	If possible, character moves down one cell
Q	Upper or lower case letter q	Quit game

The character should be moved around until it either reaches the exit or comes into contact with a poison cell.

If the character comes into contact with a poison cell the character will die if there is not an unused tonic in its possession. The tonic so used is then considered canceled out and no longer available. The character obtains tonic by coming into contact with a tonic cell.

The character comes into contact with poison and tonic cells by moving onto them. Merely being on the adjacent cell does not count as coming into contact with those cells. Once a tonic cell is moved onto it is taken by the character and removed from the maze.

When the character is in the space between the square brackets at the exit of the maze the game is considered to be over.

Navigation of the maze is based on the current position of the character, and a request to move that is received. If the cell in the direction in which the character seeks to move is empty, the character is permitted to move. If not, the character is not permitted to move. Sounds simple, huh?

The 'bad guy' is added when the other parts are working.

Presentation:

Marks are awarded for attractive presentation both of the screen output (e.g. use ANSI screen codes) and the source code. Code indentation is **vital** as is commenting of the code. An authorship section should be included at the top of the program.

Submission Mechanism:

By paper via the submission box in room 15, and by e-mail (**details to be announced**). Don't forget the 'My Own Work' form as a cover page. Ensure you have at least:

- Cover sheet ('My Own Work')
- Flow chart (Read the programming website for information).
- Source code (The perl program, printed)
- Sample data used (A screen capture of the program in operation)

- Other screen capture(s) as required
- Photograph of you using the barcode scanner with your program
- Video of you demonstrating the program
- Any other relevant supporting materials

Due Date:

2012----, 15:15

NOTE: The perl Term::Screen library is installed on the server and is required for this project.



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