

Coursework 1

The coursework should be handed into the Documentation Administrator (Wendy Field) by 3:00pm on Thursday 19th March 1998.

Every page should have on it

- The page number
- Your name
- Your login
- The course code and name (i.e. G5BAIM – Artificial Intelligence Methods (AIM)).
- The lecturers name (i.e. Graham Kendall)

Assignment

Consider the following maze. You need to make your way through it from A to U.

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y

1. Draw the complete search tree for this problem. In doing so you may assume that you cannot re-visit the state we have just left and the search tree can terminate if you arrive back at the starting location.
2. With reference to the search tree, drawn in 1, compare depth-first search and breadth-first search. State which search method is most suitable for this search tree, giving your reasons?
3. Assuming we are using a queue to store the search tree developed in 1, show the state of the queue at each point in the search method you chose in 2.
4. Would you change your search method if we lifted the restriction that we could not re-visit a state we had just left? If so, why?