A: Waston

- Waston can also be useful in education domain. It can answer the
 question asked by English learners, help them distinguish and learn
 ambiguity, irony, wit and double meaning as well as riddles and puns in
 English.
- In Chess AI system, the input information are certain chess pieces, each pieces has its own property and it never change. The Chess AI just move the pieces and play for win in a virtual board. However, in Jeopardy AI system, input information can be any words or sentences, sometimes they have more than one meaning. Thus, before giving the right answer or sending a instruction, the system needs to do analysis first, which is a really difficult work by searching and analyze the information in the huge database.
- According to the article, computers can beat top humans in Jeopardy game. From the reference 1, computers can perfectly play chess, go and poker and beat top humans now.

B: Problem Definition

Small Towers of Hanoi

performance measure	environment	actions	sensors
Move 3 disks to R2, R3, in D1, D2, D3 order(top to bottom), without breaking rules.	3 rods(R1, R2, R3). 3 disks(D1, D2, D3).	Move one upper disk to the top of another rod. A larger disk can't place on the top of a smaller disk.	Check if the move is valid. Count total moves until the completion.

Pac Man

performance measure	environment	actions	sensors
Once there is no pellet on the map, the game end.	Board. Wall. Pac man. Pellets.	Move one cell up, down, left or right each time. Eat the pellet if the aim cell has one.	Check if there is any pellet on the map. Check if the move is valid. Count total moves until the completion.

Reference:

1. https://www.wired.com/story/googles-ai-declares-galactic-war-on-starcraft-/