

The Analytical Engine has no pretensions whatever to originate anything. It can only do whatever we know how to order it to perform.

Ada Byron,
Countess of Lovelace
and daughter of the poet Byron

I 'm sorry, Dave. I can ' t let you do that.

HAL 9000,
in 2001: A Space Odyssey,
by Arthur C. Clarke

Exercise 1

Work in groups of three or four to answer the following questions:

Which of the objections that Turing anticipates against his parlor game is the weakest?

Which of the objections that Turing anticipates against his parlor game is the strongest?

Write up your answers, sign your names, and be ready to hand in your answers.

Exercise 2

Work with the same group of people to answer the following questions:

What kinds of behavior are intelligent?

How well does the Turing Test evaluate these behaviors?

Does the Turing Test introduce any problems of its own?

Again: write up your answers, sign your names, and be ready to hand in your answers.

What is Artificial Intelligence?

The Turing Test evokes the dominant naive view of intelligence.:

the ability to act like a human

Possible dimensions:

act human	act rational
think human	think rational

A Definition of Artificial Intelligence

Here is my favorite serious definition of AI:

Artificial intelligence is the computational study of how a system can perceive, reason, and act in complex environments.

Marvin Minsky's partly tongue-in-cheek definition:

Artificial intelligence is making a computer do what it can't do.

Or:

If it's been done, it's not AI.