

University of Utah

School of Computing

CS 1060

Homework #1

Spring 2016

Due Jan 21, 2016 at the start of class

Question 1 (6 points). Read Alan Turing's 1950 paper titled "COMPUTING MACHINERY AND INTELLIGENCE" and answer the following True/False questions.

1. Turing suggested that one of the strategies for the machine to win the Imitation Game is to show accuracy in arithmetic. True or False?
2. Turing required all digital computers to do well in the Imitation Game. True or False?
3. Turing believed that digital computers can be constructed to mimic the actions of a human (computer) very closely. True or False?
4. Turing suggested that a machine could intentionally introduce mistakes in the Imitation Game in a manner calculated to confuse the interrogator. True or False?
5. Turing believed that the digital computer must have infinite storage capacity. True or False?
6. Turing argued that it may be easier to program a machine to simulate the mind of a child. True or False?

Question 2 (6 points): Have a conversation with a Chatbot, in particular, with either Rose or Eliza or Mitsuku, and print out 6 answers (including the initial questions) that convince you that she is not human.

- Rose: <http://brilligunderstanding.com/rosedemo.html>
- Eliza: <http://nlp-addiction.com/eliza/>
- Mitsuku: <http://www.mitsuku.com/>