Philosophical Foundations Weak AI claim: computers can be programmed to act as *if* they were intelligent (*as if* they were thinking) Strong AI claim: computers can be programmed to think (i.e., they *really are* thinking)

 Most AI researchers assume Weak AI is true and Strong AI is irrelevant

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The Mathematical Objection Godel's theorem shows that computers are mentally inferior to humans because machines are formal systems (limited by the theorem) but humans have no such limitation (J. R. Lucas, 1961)

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