DIS_{3D}

Tuesday, July 3, 2018 4:42 PM

Topic: Countability

Countable

- there exists a bijection between set A and a subset of IN.
- countably infinite: (Duntable + infinite
 e.g. N. Q., bit strings with finite length

Uncountable

Show a set A is uncountable:

either show there exists a bijection from A to an uncountable set or use diagonalization

• Un countable sets e.g.: IR, bit strings with infinite length e.g. bit strings with infinite length



0 ... new bit string w/infinite length!