



NPTEL

NPTEL ONLINE COURSE

Discrete Mathematics

Functions

Consecutive integers

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Discrete Mathematics

Mathematical Induction and pigeonhole principle

Consecutive integers


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If 51 numbers are chosen from the integers 1 to 100 with 1 and 100 included then through that any two of the chosen integers are consecutive which means you have to prove that among the integers which you have chosen you will end up having two integers which are consecutive.

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If 51 numbers are chosen from $\{1, \dots, 100\}$ with 1 and 100 included, then prove that any 2 of the chosen integers are consecutive.



Think about the problem. In the next video we will be giving you the solution.