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Mathematics 2602

Quiz 3 Prof. Margalit 8 February 2012

1. How many odd integers are there between 1000 and 8999 with no repeated digits?

The last digit of each odd integer between 1000 and 8999 with no repeated digits is 1,3,5,7 or 9

If the last digit is 9, then there are $8(10-2)\cdot(10-3)=8\cdot8\cdot7=448$ such numbers. If the last digit is not 9, then there are $4\cdot(8-1)\cdot(10-2)\cdot(10-3)=4\cdot7\cdot8\cdot7=1568$ such numbers.

So there are 448+1568 = 2016 such numbers.