Problem 2 (due Monday, March 2)

Recall that the smallest integer greater or equal than a given real number x is denoted by $\left| x \right| \le x \le x$ and called the \$ceiling\$ of x. Let \$p\$ be a prime number and $1\leq x$ an integer. Prove that the number

This problem was solved by only one participant: Yuqiao Huang. The submitted solution does not discuss the case when a=p. For $l\leq p$, the solution claims correctly that $l\leq p$. For $l\leq p$, the solution claims correctly that $l\leq p$. For $l\leq p$, the solution claims correctly that $l\leq p$. In order to $l\leq p$, the claim, the solver proves that $l\leq p$. In order to $l\leq p$, the solver proves that $l\leq p$. The proof of the right hand side inequality is fairly simple; the submitted proof of the left hand side inequality is rather long and complicated, and we will not reproduce it here. To see a detailed solution click the following link Solution

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Last update: 2020/03/02 22:55

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