

Problem:

There are n number of boxes. This n number is defined by the user via input. These n boxes each hold a gold coin. Initially all the n number of boxes are closed. For n number of boxes, you make n passes through every box starting from first box every time. The first time you start, you pass each box and toggle the box lid. The second time you visit the box traversing would start from the first box again but now you can only toggle every 2nd box in the queue, the third time every 3rd box would be toggled and so on. So, after n passes you can collect gold coins from the boxes which is opened. Write a program to find out how many gold coins you would get at the end.