## (6) 1107 Mathematics for Computer Science 6.042J/18.062J <br> PROOFS, I <br> cc) (i) () Albert R. Meyer, 2015 Sptember 92015



Rearrange into:
(i) a c $\times c$ square, and then
(ii) $a n a \times a$ \& $a b \times b$ square


\section*{| 6 | 9 | 13 |
| :---: | :---: | :---: | :---: |
| 12 | 10 |  |
|  | 10 | 5 | <br> A Cool Proof}



$$
c \times c \text { square }
$$

(c) (i) () Albert R. Meyer, 2015



\section*{| 6 | $9^{13}$ | 7 |
| :---: | :---: | :---: |
| 12 |  | 10 | <br> | 12 |  | 10 | 5 |
| :---: | :---: | :---: | :---: |
| 3 | 1 | 4 | 14 |
|  |  |  | 1 | <br> A Cool Proof}


(c) (1) () Albert R. Meyer, 2015

September 92015
proof-intro.I. 9


| 6 | 9 | 13 | 7 |
| :---: | :---: | :---: | :---: |
| 12 |  | 10 | 5 |
|  |  | 4 |  |



- elegant and correct --in this case
- worrisome in general
--hidden assumptions
(c) (i) ©) Albert R. Meyer. $2015 \quad$ September9 2015 proof-intro.T.11




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Mas
Lots of good examples,
    for example:
    Gardner, Martin
    Mathematics, Magic and Mystery
    (Dover, 1956, 12 + 176)
    http://store.doverpublications.com/0486203352.html
    or https://en.m.wikipedia.org/wiki/Missing_square_puzzle
(c) () () Abert R.Mever, 2015```

