

System Design Basics (Lottery Ticket)

<http://cse.buet.ac.bd/bsadd>
<https://medium.com/bsadd>

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The situation

Alan Turing needs some help.

He is out of money and he is looking for a work.

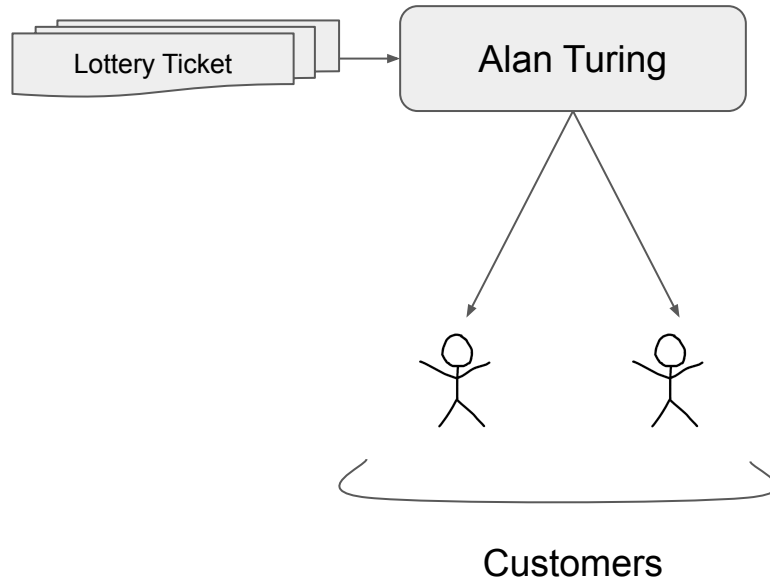
The stupid solution

Alan Turing needs some help.

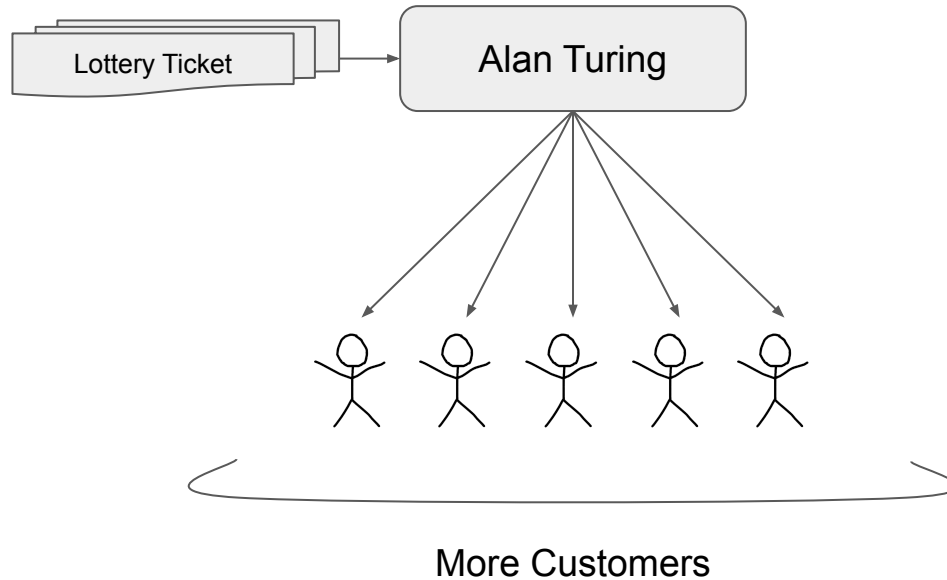
He is out of money and he is looking for a work.

So he decided to sell lottery ticket and earn some money around that.

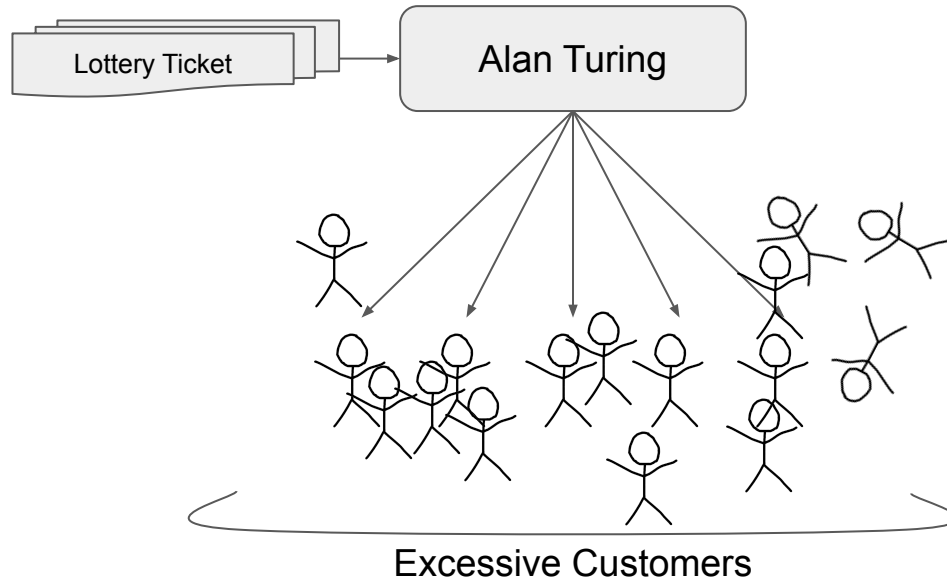
Alan Turing is selling lottery ticket



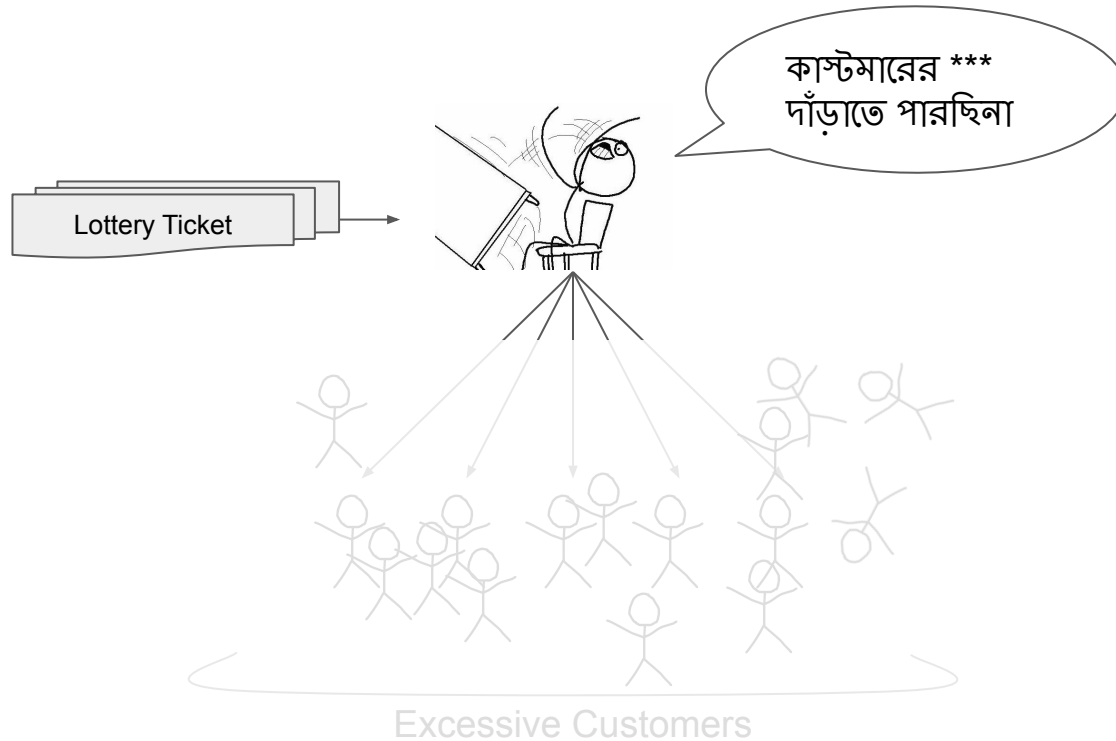
Turing became popular



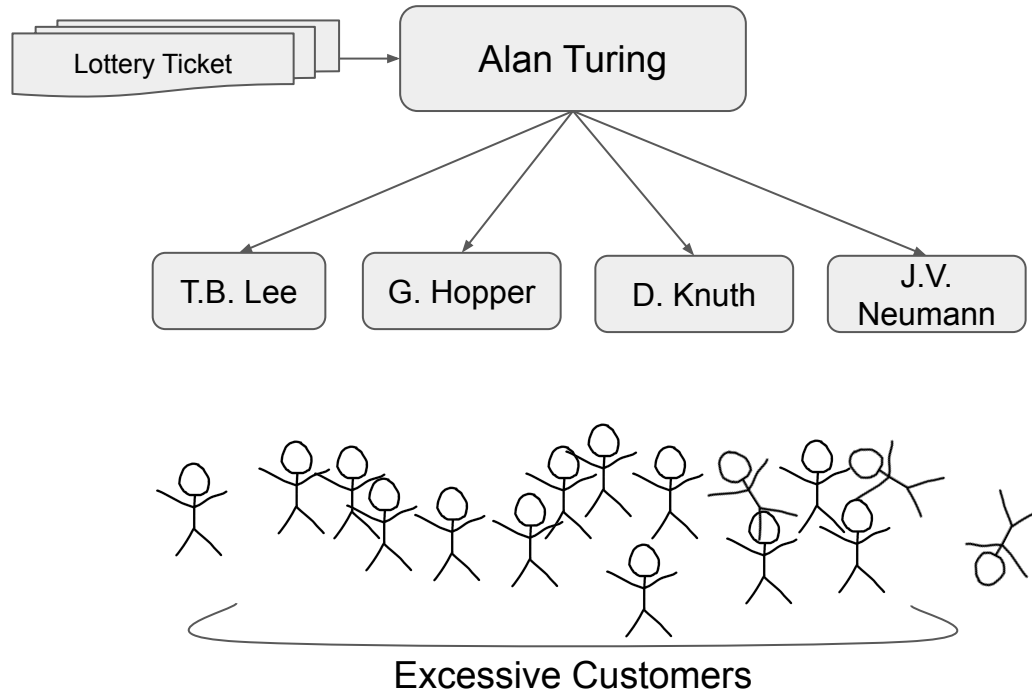
Turing's ticket booth became super popular



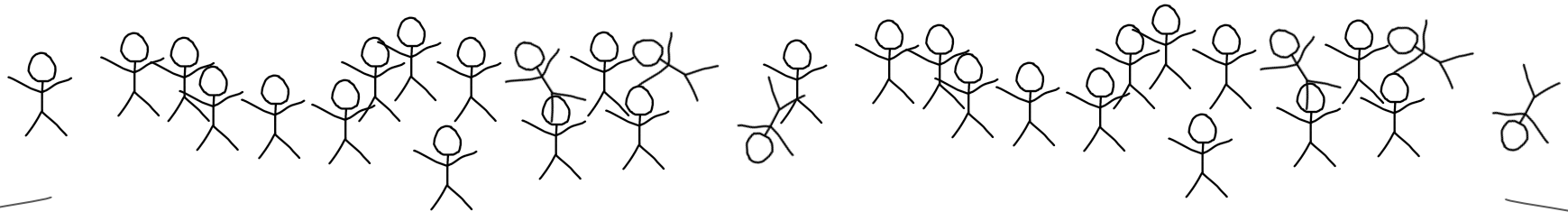
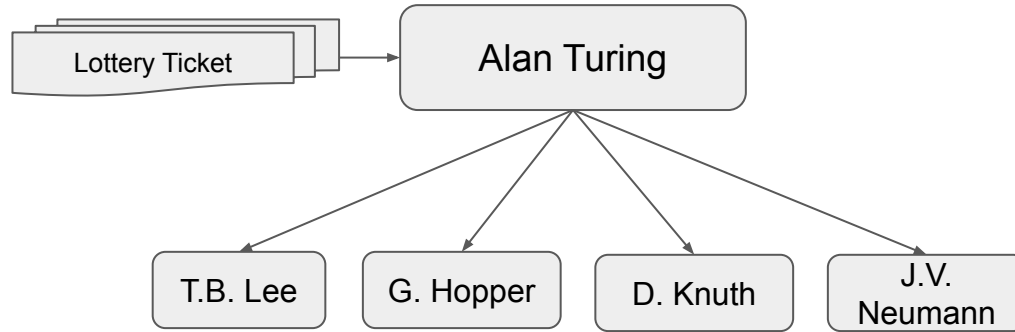
At some moment, Turing feeling like...



So, Turing recruited some people for him

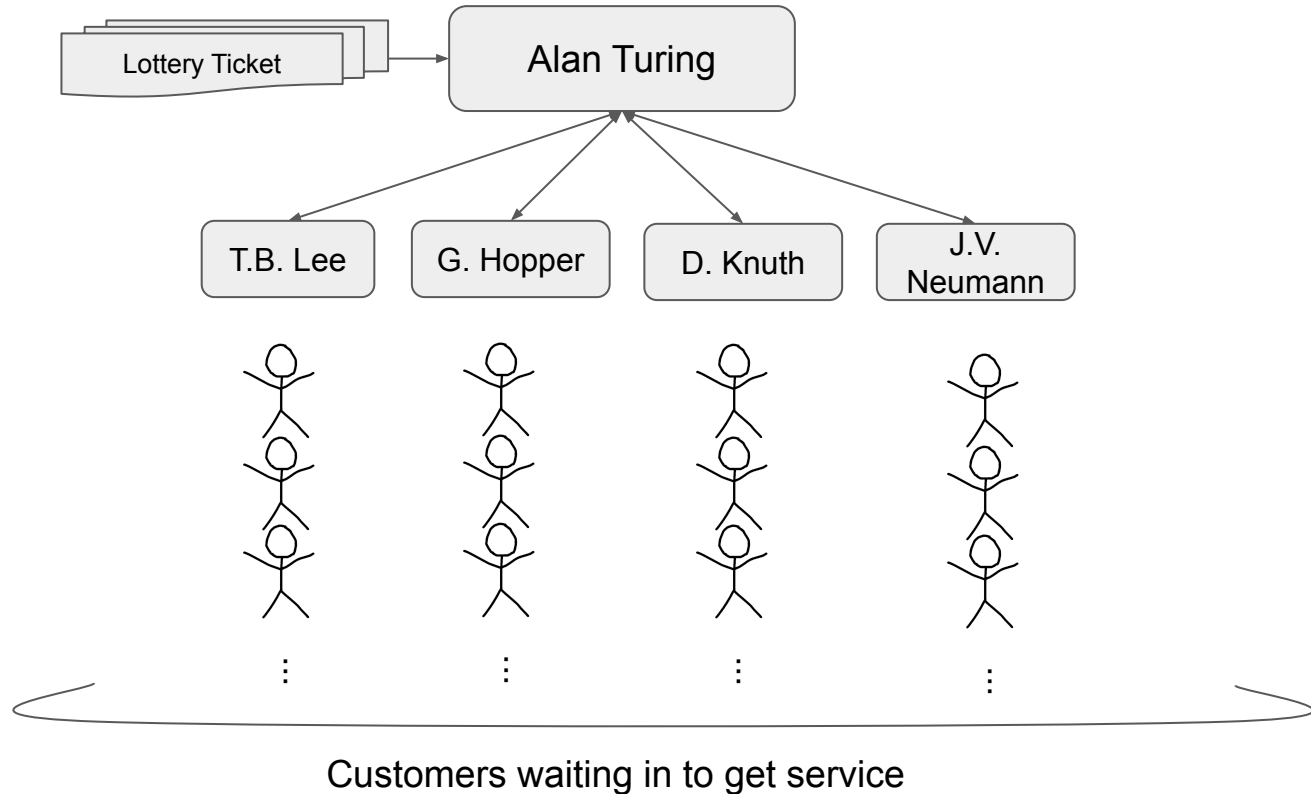


Things were running fine, but then more customers came

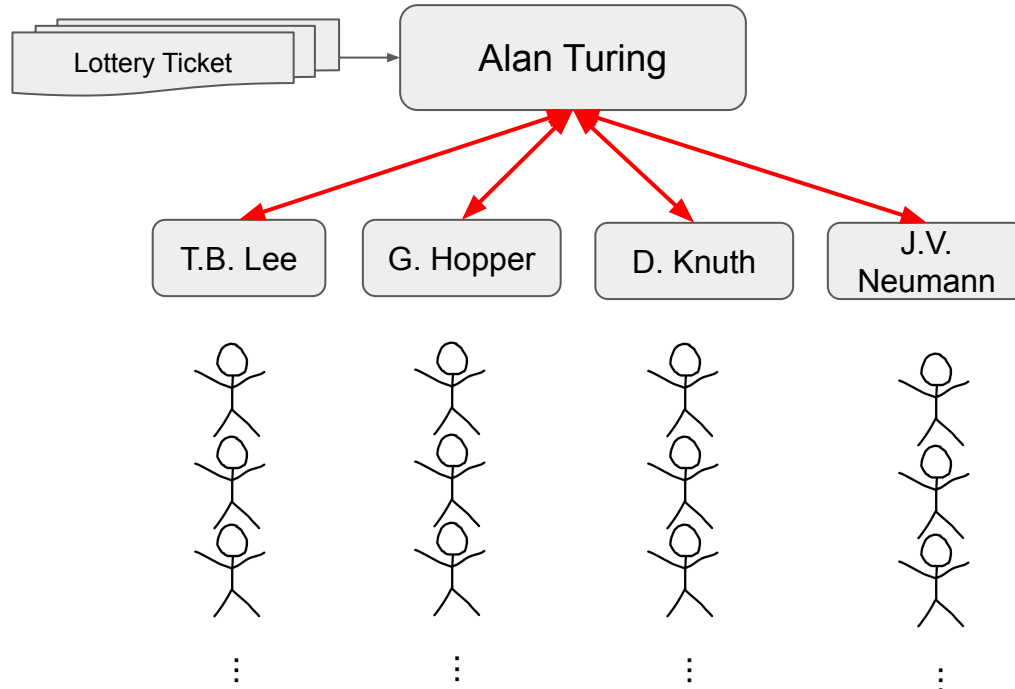


Super Excessive Customers

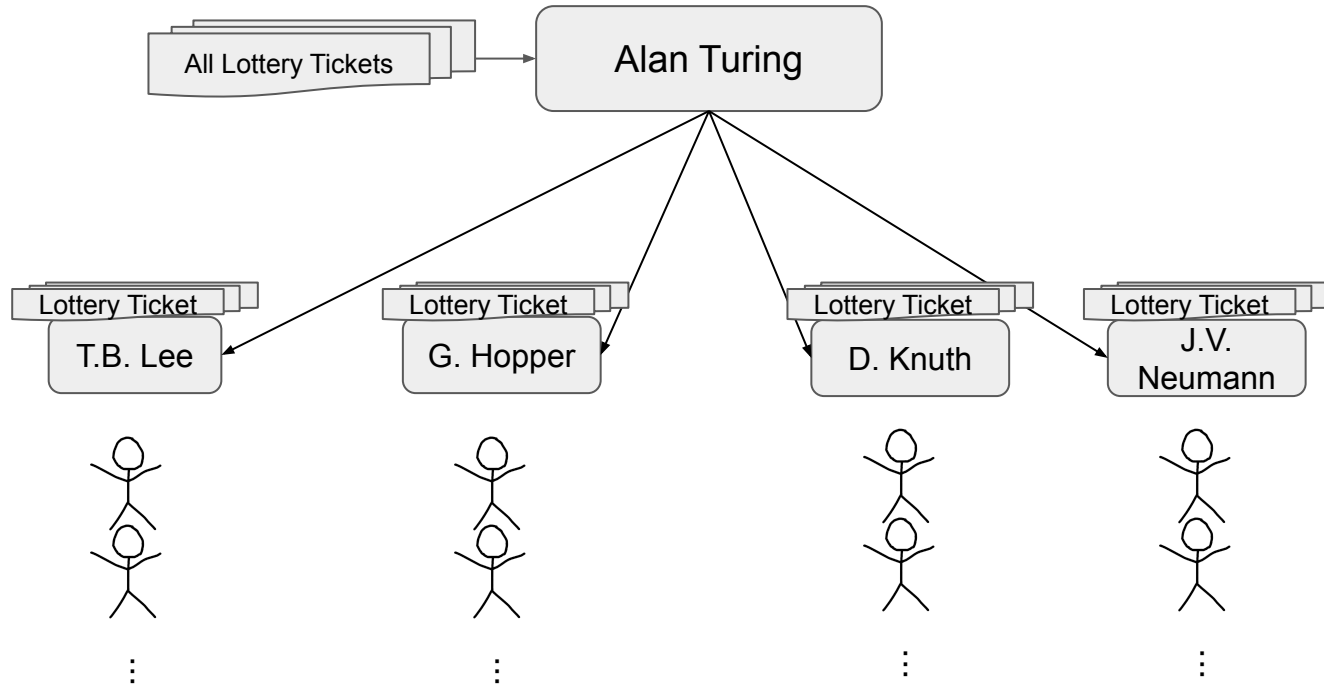
Turing came up with this idea to put them in line



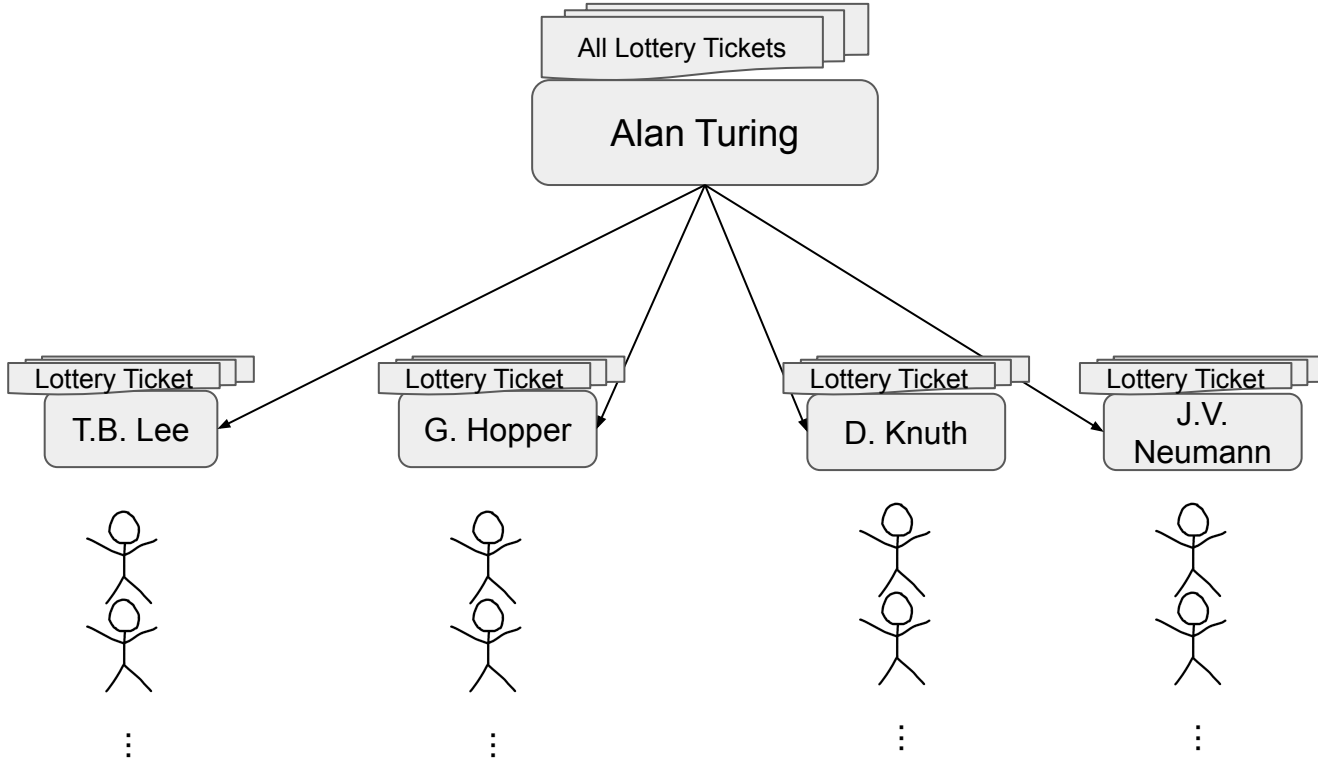
With too many people in the line, the ticket resellers were unnecessarily going back and forth to Turing



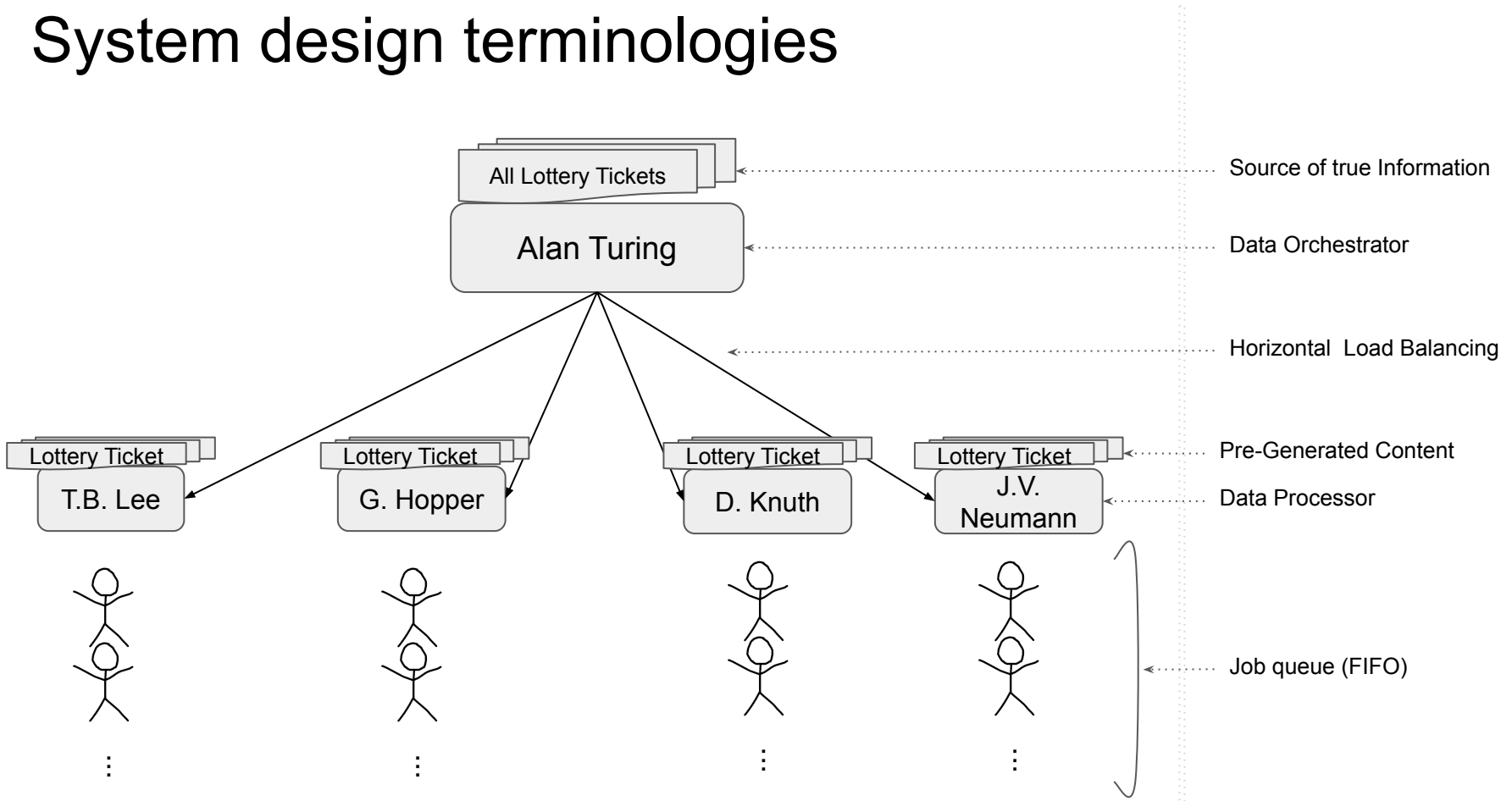
So, Turing printed a bunch of tickets and give them to resellers upfront, so that they can save time



And the final design looks like this



System design terminologies



Thank You :)