	my timeline: take roles, write down thoughts: 15 min
	Assumptions lests/find maghts: 15 min
_	Assume: there will be an error it some one input
	invalid invertory, products reeded a set of product
->	for product chains there are multiple possible
	product replacements and it doesn't matter now
\rightarrow	products needed will be input as a dictionary
-	how do we optimize for fulfillment? I will use the product with highest inertong levels instead
	of product "most similar"
\rightarrow	each product ID is night
7	there will always be enough product (never run at)
6.	

	Thoughts for Implementation
->	lots of didionary
7	Inventory: maps id integer to quantity in Stock
	will use dictionary
\rightarrow	products reeded; wrete in assumptions this will
	te inputted as adictionary
4	set of product chains i maps id integer
	to list of id's that can be used as backup
	(no order in til-breaking)
\rightarrow	need helper firetions
	- insert product into inventory dictionary
	adds to it
	- determine product with highest mentary
m PH I	levels based or list
7	quentity of preducts added will map preduct Id
	to quentity added, will use dictionary
->	need to make sure inventory duestit dray below O.
	relper forchia to check inventory value munt
	dry below O.
->	while loop to keep updating until our order is
	complete for each item

	Thought for figure development
\rightarrow	Searching product chain then searching Inventory
	is inefficient, so maybe 150 a different date grunde
	that only has product chain id in product
2	chain dictionary if it is in quantity
-7	think of eagle cases myso tests
一	prints should be asset to threw error it
	not in dictionary
7	social to the second se