**Google Hash Code – 2021 Pizza Problem Documentation**

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Code Push Commit 1 Documentation

Code implemented using Python Linked List.

Linked List declaration:

class ingredient\_count:  
  
 def \_\_init\_\_(self,data,Node ):  
 self.data = data  
 self.next = Node  
  
class pizza\_id:  
  
 def \_\_init\_\_(self,data,Node):  
 self.data = data  
 self.flag = 1  
 self.next = Node  
  
class ingredients :  
  
 def \_\_init\_\_(self,data):  
 self.data = data  
  
class delivered\_pizza:  
 def \_\_init\_\_(self,data):  
 self.data = data

The input from the command line is acquired using split() method.

# Getting input data in form of linked list  
  
while(i < int(number\_of\_pizza)):  
 temp\_list = []  
 raw\_input = input()  
 temp\_list\_ingredients = raw\_input.split(" ")[0]  
 temp\_list = raw\_input.split(" ")[1: ]  
 pizza\_information.append(ingredient\_count(temp\_list\_ingredients,pizza\_id(i,ingredients(temp\_list))))  
 i = i+ 1  
  
i = 0

The input from the user is then sorted. The Sort function is not optimized. The sort function can be optimized with Count Sort Algorithm.

Current idea is to use loops within loops for each team starting with two member team ending with four member team. Improvements needs to be made with this loop function to reduce the number of loops in order to decrease the chances of the code being stuck in infinite loop.

Flag setting is being used to exit from the loop, any other efficient method of exiting from the loop might be required.