

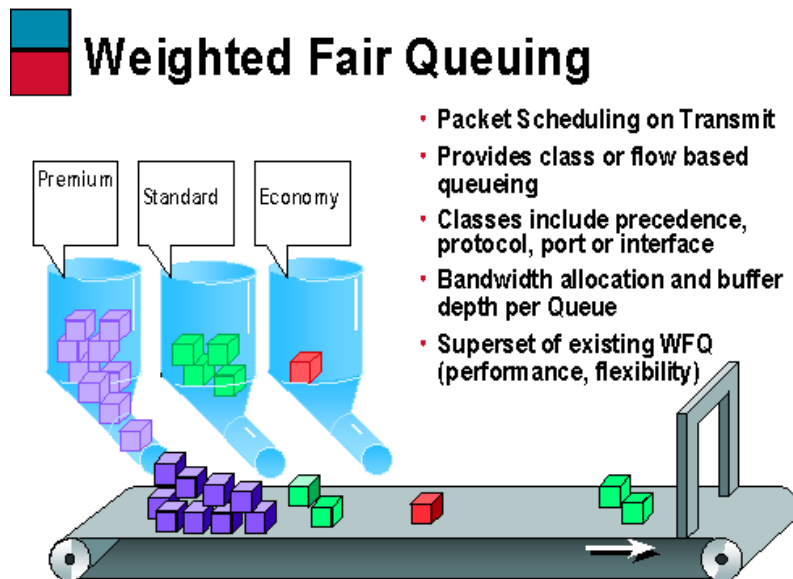
## Queue in Python

### Two Submissions

Submit your .py file to Canvas.

Submit your .py file to YOUR remote Github repository as **WFQ.py** (so I can spot it)

### Manage a Weighted Fair Queue



You have one input stream of data.

Write a Python script that will build three queues using `append`.

After the queues have been built, apply [WFQ](#) to the queues to pop items off the queues and print the output of the queues as the items are dequeued in prioritized order.

The stream of data will be prioritized

- Three to one basis favoring the Premium data
- Two to one basis favoring the Standard data
- One to one basis favoring the Economy data

Below is your existing built up queue which represents packet input - "P" indicates Premium, "S" Standard, "E" Economy. You have two options for getting the input packets: read a .txt file or read the list - both are provided in the assignment. Extra 10 points for reading the txt file to get them.

In either case you have to parse each element in the input list into the first character which represents the priority level of the packet (P, S, or E).

Insert the packet into the correct queue.

When they are all appended to their correct queues, print them out according to the priority scheme.

Input Packet Stream

S Mary  
P Dee  
P Dee  
E Eileen  
E Mike  
E Joe  
P Dee  
E Vicky  
E George  
P Dee  
P Joe  
E Sally  
P Joe  
S Pete  
P Dee  
S Bill  
S Chase  
E Price  
P Dee  
E Sue

[Queue in Python - GeeksforGeeks](https://www.geeksforgeeks.org/queue-in-python/)

Once you get the packets into their proper queues, here is some pseudocode that might help.

Print 3 Priority packets until Priority queue is empty

Then print 2 Standard packets until standard queue is empty

Then print 1 Economy packet until economy queue is empty

Repeat until all queues empty