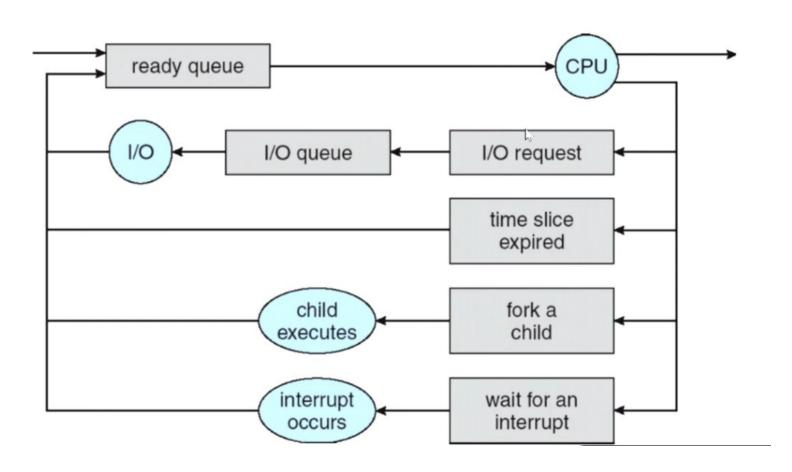
#### Lab 7: Scheduler Part 1

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#### Primer

- FCFS
- SJF
- PSJF
- PRI
- PPRI
- RR

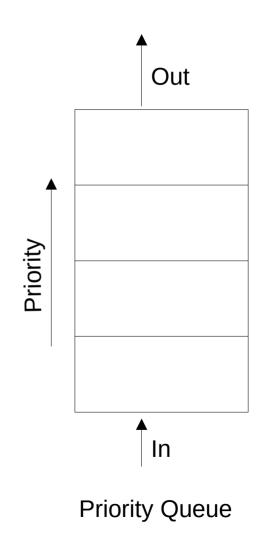


# Project Repository

- libpriqueue
  - libpriqueue.c (update this file)
  - Libpriqueue.h (Might have to update this file)
- queuetest.c (no need to change)

# libpriqueue.h

```
4 #ifndef LIBPRIQUEUE H
  #define LIBPRIQUEUE H
     Priqueue Data Structure
      edef struct priqueue t
    priqueue t;
                            (priqueue t *q, int(*comparer)(const void *, const void *));
16 void
          priqueue init
18 int
          priqueue offer
                             (priqueue t *q, void *ptr);
19 void * priqueue peek
                             (priqueue t *q);
20 void
          priqueue poll
                             (priqueue t *q);
21 void * priqueue at
                             (priqueue t *q, int index);
                            (priqueue t *q, void *ptr);
          priqueue remove
23 void * priqueue remove at(priqueue t *q, int index);
24 int
          priqueue size
                             (priqueue t *q);
26 void
          priqueue destroy (priqueue t *q);
28 #endif /* LIBPQUEUE H */
```



### Compare Function

- int comparer(const void\* elem1, const void\* elem2);
- Parameters
  - Typecast the parameters into suitable types
  - Then compare based on some attribute of elements
  - Attribute: arrival time, running time, priority
- Return Value
  - elem1 < elem2 : return negative</p>
  - elem1 == elem2 : return 0
  - elem1 > elem2 : return positive