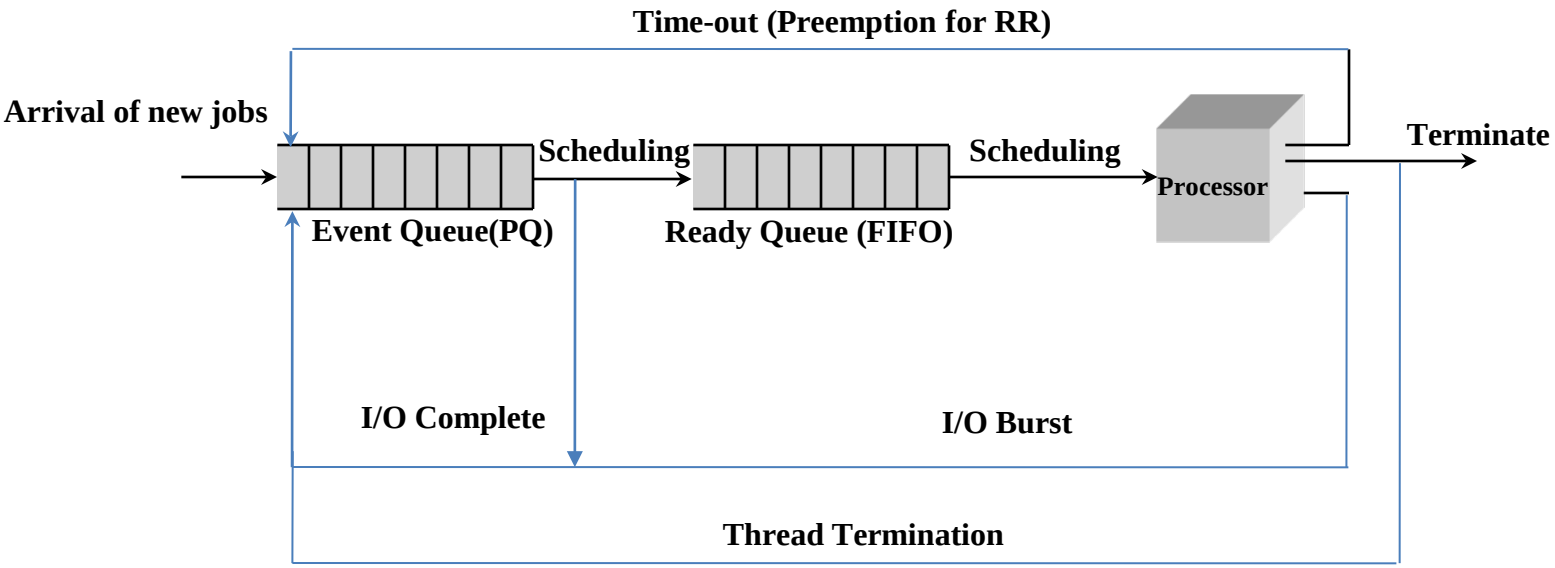
Scheduling Simulation (FCFS, RR)



```
while (!EventQ.IsEmpty())
{
  nextEvent = EventQ.pop();
  switch (nextEvent ->type)   {
    case ARRIVAL:
       /* create a new process and place it into ReadyQ */
       ...
       break;
    case PREEMPTION: //for RR
       /* current process preempted into ReadyQ */
       cpu_idle = TRUE;
       ...
       break;
    case IO_BURST:
       /* move the current process into eventQ for completion */
       cpu_idle = TRUE;
       ...
       break;
    case IO_COMPLETE:
       /* put the process in ReadyQ */
       io_idle = TRUE;
       ...
       break;
    case THREAD_TERMINATION or PROCESS_TERMINATION :
       /* update statistics*/
       cpu_idle = TRUE;
       ...
       break;
  }
  if (cpu_idle && !ReadyQ.IsEmpty()) {
     cpu_idle = FALSE;
     ReadyQ.pop();  /* run the next process from the ready Q */
     …
  }
}
```