## Patient

- + Pabent (string id, char gender,
  string arrival time, string service-type)
- To get\_id () : string-1
- + get-gorder (): char
- + get\_service\_type (): String
- + get\_arrival\_time(): string
- id : string
- gender : char
- arrival time: string
- service-type: string

## random\_pahent\_record (system, num\_pahents)

## QueveingSystem

- + add\_new\_pahent(p: Pahent)
- + service-pahents (num: int, wrient-time: int)
- + display -queues ()
- + display\_done\_pahents()
- + display\_total()
- + display-patient\_in-service (p: Patient)
- urgent-queue: queue (Patient)
- normal-queue: queue (Patient
- done-patients: vector (string)
- total-patients: int
- urgent\_count: int
- normal-count: int
- total\_waiting\_time: int
- Served\_patients: int