

Program

- ProgramID: string
- name : string
- quota : int
- rol : int[]
- matched Residents: ArrayList<Resident>

- + SetROL(): void
- + GetQuota(): int
- + GetFilledPositions(): int
- + GetProgramID(): string
- + member(int): bool
- + Rank(): int
- + leastPreferred(): Resident
- + AddResident(Resident): bool
- + ToString(): string

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Resident

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Resident

- Resident ID : int
- first name : string
- last name : string
- Rol : string[]
- Matched program : Program
- Matched rank : int
- Next proposal Index : int

+ Set Rol (string[]) : void
+ get first name() : string
+ get last name() : string
+ get matched program() : Program
+ is matched() : Bool
+ get matched rank() : int
+ match (Program, int) : void
+ on match () : void
+ get ID() : int
+ to string() : string

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+ residents = Hash map<int, Resident>

+ Programs = Hash map<string, Program>

+ main() : void

+ read Residents (string) : void

+ read Programs (string) : void

+ GaleShapley Algo() : void

+ print Final Results (string) : void