Vingi Panken VHP 286 EE360(

## G-S Project 1

## Pre-Loop

- Create Hashmap for each intemships matching
- an anneylist to stone engagement of each student
- Hashmap for the slots In even internship
- invense preferre list for internships for constant access time
- Annaylist to store the prace of each student in them Imposars

## Loop:

Sets the convent student

the loop was till students are satisfied

Inner- the internsing from the place of his next proposour

If the internation has empty spots:

- Stocked eigenst to that intenship
- decrease remaining 56+5
- uplate party for the internship
- increase happy students by I
- decrease Slots for that internship

- check if the student can reprace another straint
  - get laves+ pref street of tent intenship
- If switch needed switch

-update an data smeetnes

de this for an proposals

increment happy strelent if " vernally proposals best

retour analysis: The argonitum is not O(min) because when I want to switch students I check for the min of the connect paincel students. Because of this In wonst case I have to check all students to find the lowest prefeed Pained student. However this case is non common, generally the argon: trum runs closen to 6 (m.n.) becase not all students none 1 intenship.