```
GALE-SHAPLEY (men, women, rankings)
   assign each woman and man as free
   while some woman w is free
        let m be the first man on w's ranked list to whom she has not proposed
        if m is free
            w and m become engaged to each other (and not free)
        elseif m ranks w higher than the woman w' he is currently engaged to
6
            m breaks the engagement to w', who becomes free
            w and m become engaged to each other (and not free)
        else m rejects w, with w remaining free
   return the stable matching consisting of the engaged pairs
10
```