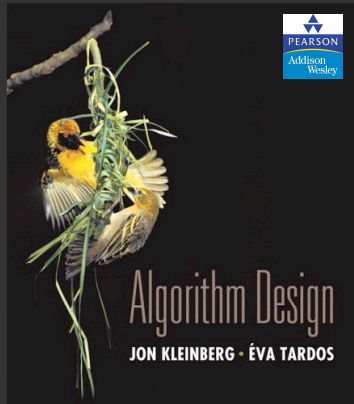


1. REPRESENTATIVE PROBLEMS

► Gale-Shapley demo



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Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Victor proposes to Bertha

3

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Victor proposes to Bertha
 Bertha accepts
 (since previously unmatched)

4

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Wyatt proposes to Diane

5

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Wyatt proposes to Diane
Diane accepts
(since previously unmatched)

6

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Xavier proposes to Bertha

7

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Xavier proposes to Bertha
Bertha accepts
(and dumps Victor)

8

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Victor proposes to Amy

9

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Victor proposes to Amy
Amy accepts
(since previously unmatched)

10

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Amy

11

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Amy
Amy rejects
(since she prefers Victor)

12

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Diane

13

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Diane
Diane accepts
(and dumps Wyatt)

14

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Wyatt proposes to Bertha

15

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Wyatt proposes to Bertha
Bertha rejects
(since she prefers Xavier)

16

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Wyatt proposes to Amy

17

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Wyatt proposes to Amy
Amy rejects
(since she prefers Victor)

18

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Wyatt proposes to Clare

19

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Wyatt proposes to Clare
Clare accepts
(since previously unmatched)

20

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Zeus proposes to Bertha

21

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Zeus proposes to Bertha
Bertha rejects
(since she prefers Xavier)

22

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Zeus proposes to Diane

23

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Zeus proposes to Diane
Diane accepts
(and dumps Yancey)

24

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Clare

25

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Clare
Clare rejects
(since she prefers Wyatt)

26

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Bertha

27

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Bertha
Bertha rejects
(since she prefers Xavier)

28

Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Erika

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Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

Yancey proposes to Erika
Erika accepts
(since previously unmatched)

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Gale-Shapley demo

men's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Victor | Bertha | Amy | Diane | Erika | Clare |
| Wyatt | Diane | Bertha | Amy | Clare | Erika |
| Xavier | Bertha | Erika | Clare | Diane | Amy |
| Yancey | Amy | Diane | Clare | Bertha | Erika |
| Zeus | Bertha | Diane | Amy | Erika | Clare |

women's preference list

| | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Amy | Zeus | Victor | Wyatt | Yancey | Xavier |
| Bertha | Xavier | Wyatt | Yancey | Victor | Zeus |
| Clare | Wyatt | Xavier | Yancey | Zeus | Victor |
| Diane | Victor | Zeus | Yancey | Xavier | Wyatt |
| Erika | Yancey | Wyatt | Zeus | Xavier | Victor |

STOP
(stable matching)

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