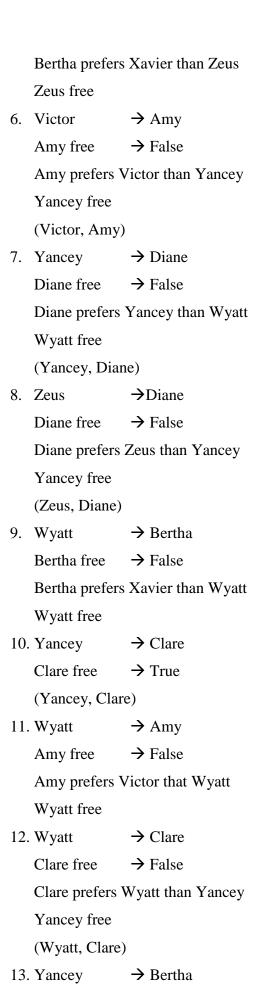# ANALISIS ALGORITMA

Oleh:

Refa Annisatul Ilma   **(140810170060)**

PROGRAM STUDI TEKNIK INFORMATIKA

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

UNIVERSITAS PADJADJARAN

TAHUN AJARAN 2018/2019

```
Initially all m ∈ M and w ∈ W are free
While there is a man m who is free and hasn't proposed to
every woman
    Choose such a man m
    Let w be the highest-ranked woman in m's preference list
        to whom m has not yet proposed
    If w is free then
        (m, w) become engaged
    Else w is currently engaged to m'
        If w prefers m' to m then
            m remains free
        Else w prefers m to m'
            (m, w) become engaged
            m' becomes free
        Endif
    Endif
Endwhile
Return the set S of engaged pairs
```

1. Victor   → Bertha
   Bertha free   → True
   (Victor, Bertha)

2. Wyatt   → Diane
   Diane free   → True
   (Wyatt, Diane)

3. Xavier   → Bertha
   Bertha free   → False
   Bertha prefers Xavier than Victor
   Victor free
   (Xavier, Victor)

4. Yancey   → Amy
   Amy free   → True
   (Yancey, Amy)

5. Zeus   → Bertha
   Bertha free   → False

Bertha prefers Xavier than Zeus

Zeus free

6. Victor   → Amy

   Amy free   → False

   Amy prefers Victor than Yancey

   Yancey free

   (Victor, Amy)

7. Yancey   → Diane

   Diane free   → False

   Diane prefers Yancey than Wyatt

   Wyatt free

   (Yancey, Diane)

8. Zeus   →Diane

   Diane free   → False

   Diane prefers Zeus than Yancey

   Yancey free

   (Zeus, Diane)

9. Wyatt   → Bertha

   Bertha free   → False

   Bertha prefers Xavier than Wyatt

   Wyatt free

10. Yancey   → Clare

    Clare free   → True

    (Yancey, Clare)

11. Wyatt   → Amy

    Amy free   → False

    Amy prefers Victor that Wyatt

    Wyatt free

12. Wyatt   → Clare

    Clare free   → False

    Clare prefers Wyatt than Yancey

    Yancey free

    (Wyatt, Clare)

13. Yancey   → Bertha

Bertha free → true

Bertha prefers Xavier than Yancey

Yancey free

14. Yancey → Erika

Erika free → true

(Yancey, Erika)

Conclusion:

1. (Victor, Amy)
2. (Wyatt, Clare)
3. (Xavier, Bertha)
4. (Yancey, Erika)
5. (Zeus, Diane)