

LAPORAN PRAKTIKUM

WORKSHEET 1



Oleh:

Muhamad Ilham Habib (140810180018)

Kelas B

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

UNIVERSITAS PADJADJARAN

JATINANGOR

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Worksheet 01

Dengan Algoritma Gale-Shapley, cari himpunan stable-matching yang sesuai dengan preference lists berikut ini. Gunakan processor terbaik yang Anda miliki (otak) untuk mengikuti algoritma G-S dan output tidak perlu diuraikan per-looping tetapi Anda harus memahami hasil setiap looping.

Men's Preferences Profile

	0 th	1 st	2 nd	3 rd	4 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 Preferences Profile

	0 th	1 st	2 nd	3 rd	4 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	Zeuss	Xavier	Victor

Rules :

Initially all $m \in M$ and $w \in W$ are free

While there is a man m who is free and hasn't proposed to every woman

Choose such a man \underline{m}

Let \underline{w} be the highest-ranked woman in \underline{m} 's preference list to whom \underline{m} has not yet proposed

If \underline{w} is free then

($\underline{m}, \underline{w}$) become engaged

Else \underline{w} is currently engaged to \underline{m}'

If \underline{w} prefers \underline{m}' to \underline{m} then

\underline{m} remains free

Else \underline{w} prefers \underline{m} to \underline{m}'

($\underline{m}, \underline{w}$) become engaged

\underline{m}' become free

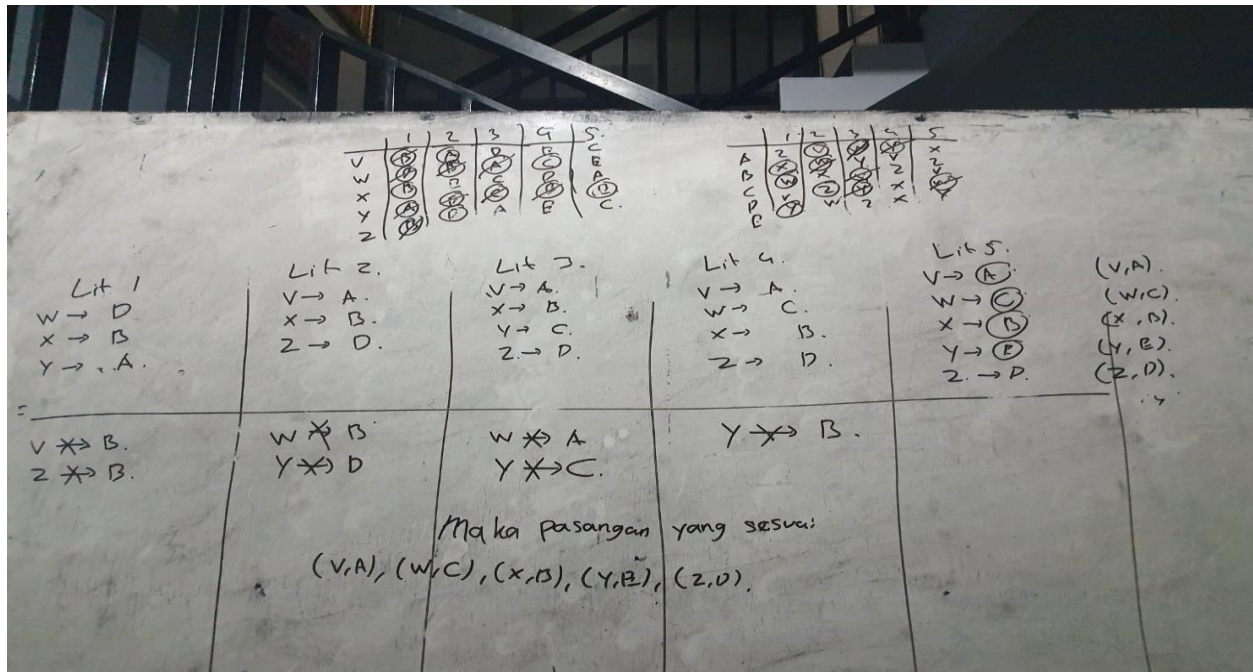
Endif

Endif

Endwhile

Return the set S of engaged pairs

Jawaban



Pasangan yang didapat dan sama seperti output program

([Victor, Amy], [Wyatt, Clare], [Xavier, Bertha], [Yancer, Erika], [Zeus, Diane])

```

=====
Pasangan
=====
Victor Amy
Xavier Bertha
Wyatt Clare
Zeus Diane
Yancer Erika
=====

Process returned 0 (0x0)   execution time : 0.038 s
Press any key to continue.

```