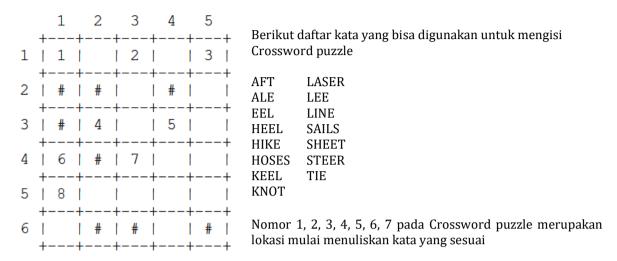
2. Anda diminta untuk menyelesaikan permasalahan *Crossword puzzle* dibawah ini menggunakan *Constraint Satisfaction Problem* (CSP).



Merujuk pada permasalahan Crossword puzzle tersebut di atas, jawablah pertanyaan berikut:

- (a) Jelaskan Variabel, Domain, dan Constraint
- (b) Gambarkan grafnya
- (c) Selesaikan problem CSP di atas secara step-by-step dengan pendekatan Forward Checking dan Backtracking, jika diketahui kata pada **1 Mendatar** adalah "**HOSES**".

a. VARIABLE | STARTING CELL | DOMAIN

========		
1ACROSS	1	{HOSES, LASER, SAILS, SHEET, STEER}
4ACROSS	4	{HEEL, HIKE, KEEL, KNOT, LINE}
7ACROSS	7	{AFT, ALE, EEL, LEE, TIE}
8ACROSS	8	{HOSES, LASER, SAILS, SHEET, STEER}
2DOWN	2	{HOSES, LASER, SAILS, SHEET, STEER}
3DOWN	3	{HOSES, LASER, SAILS, SHEET, STEER}
5DOWN	5	{HEEL, HIKE, KEEL, KNOT, LINE}
6DOWN	6	{AFT, ALE, EEL, LEE, TIE}

Constraints:

Semua Binary Constraints

```
1ACROSS[3] = 2DOWN[1]
1ACROSS[5] = 3DOWN[1]
4ACROSS[2] = 2DOWN[3]
4ACROSS[3] = 5DOWN[1]
4ACROSS[4] = 3DOWN[3]
7ACROSS[1] = 2DOWN[4]
7ACROSS[2] = 5DOWN[2]
7ACROSS[3] = 3DOWN[4]
```

8ACROSS[1] = 6DOWN[2] 8ACROSS[3] = 2DOWN[5] 8ACROSS[4] = 5DOWN[3] 8ACROSS[5] = 3DOWN[5]

b. Graf

