

Roll Number: CB.EN.U4CSE17105

Data:

```
[[ 'a', 'b', 'd', 'e'],  
[ 'b', 'c', 'd'],  
[ 'a', 'b', 'd', 'e'],  
[ 'a', 'c', 'd', 'e'],  
[ 'b', 'c', 'd', 'e'],  
[ 'b', 'd', 'e'],  
[ 'c', 'd'],  
[ 'a', 'b', 'c'],  
[ 'a', 'd', 'e'],  
[ 'b', 'd']]
```

Minimum support: 3

Frequency:

```
[[{'d'}, 9],  
[{'b'}, 7],  
[{'e'}, 6],  
[{'d', 'e'}, 6],  
[{'d', 'b'}, 6],  
[{'c'}, 5], [ {'a'}, 5],  
[{'d', 'c'}, 4],  
[{'a', 'e'}, 4],  
[{'a', 'd', 'e'}, 4],  
[{'a', 'd'}, 4],  
[{'b', 'e'}, 4],
```

['d', 'b', 'e'], 4],

['b', 'c'], 3],

['a', 'b'], 3]]

ARM:

Minimum support = 3

Step 1:		Step 2:	
Items	Count		Count
a	5	{a, b}	3
b	7	{a, c}	2
c	5	{a, d}	4
d	9	{a, e}	4
e	6	{b, c}	3
		{b, d}	6
		{b, e}	4
		{c, d}	4
		{c, e}	2
		{d, e}	6

Step 3: After pruning Step 2

{a, b}	3
{a, d}	4
{a, e}	4
{b, c}	3
{b, d}	6
{b, e}	4
{c, d}	4
{d, e}	6

FP Tree:

