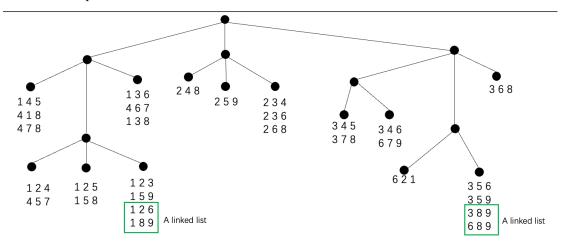
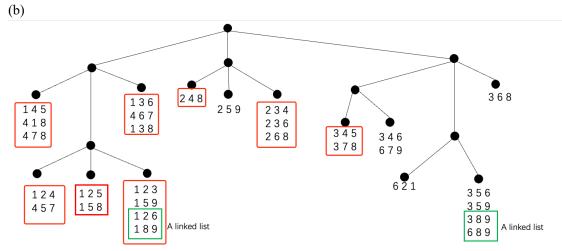
(a)

The generated list is:

```
[[[[1, 4, 5], [1, 4, 8], [4, 7, 8]],
    [[[1, 2, 4], [4, 5, 7]],
    [[1, 2, 5], [1, 5, 8]],
    [[1, 2, 3], [1, 5, 9], '[1, 2, 6]->[1, 8, 9]']],
    [[1, 3, 6], [4, 6, 7], [1, 3, 8]]],
    [[[2, 4, 8]], [[2, 5, 9]], [[2, 3, 4], [2, 3, 6], [2, 6, 8]]],
    [[[], [[3, 4, 5], [3, 7, 8]], [[3, 4, 6], [6, 7, 9]]],
    [[], [], [[3, 5, 6], [3, 5, 9], '[3, 8, 9]->[6, 8, 9]']],
    [[3, 6, 8]]]]
```

And the corresponded Tree Structure is:





As shown as red rectangle, Match transaction against 20 out of 29 candidates, 20 comparisons

Q2

(a)

```
Milk : 5526
  Ghee : 5510
  Coffee Powder: 5509
 Yougurt : 5503
Bread : 5484
  Sweet : 5483
  Sugar : 5482
  Butter : 5481
  Cheese : 5476
  Panner : 5444
  Lassi : 5432
   Tea Powder : 5383
  ('Coffee Powder', 'Ghee'): 2578
('Lassi', 'Sweet'): 2576
('Butter', 'Sugar'): 2571
('Sugar', 'Milk'): 2563
     'Butter',
'Sugar', 'Milk'): 2563
'Yougurt', 'Coffee Powder'): 2555
'Panner', 'Bread'): 2550
 ('Yougurt ,
('Panner', 'Bread') : 2536
('Butter', 'Sweet') : 2539
('Lassi', 'Milk') : 2539
('Sweet', 'Bread') : 2539
                              'Yougurt') : 2532
'Bread') : 2530
      Cheese',
                            'Ghee'): 2530
'Yougurt'): 2529
'Yougurt'): 2529
      Butter',
      Butter',
      Sugar',
      'Bread', 'Coffee Powder'): 2528

'Panner', 'Ghee'): 2523

'Coffee Powder', 'Milk'): 2518

'Cheese', 'Coffee Powder'): 2517
      'Bread',
'Panner'
    'Coffee 'Coffee Powder',
'Cheese', 'Coffee Powder',
'Bread', 'Milk') : 2517
'Sugar', 'Ghee') : 2516
'Yougurt', 'Milk') : 2513
'Lassi', 'Coffee Powder')
'Lassi', 'Coffee Powder')
                                                                      : 2512
                           'Milk'): 2512
'Ghee'): 2511
                    ', 'Ghee') : 2511
', 'Milk') : 2511
', 'Yougurt') : 2507
', 'Bread') : 2506
r', 'Sugar') : 2505
r', 'Sweet') : 2505
      'Lassi'
  ('Ghee', '
('Bread',
      'Lassi', '
'Panner',
   'Panner', 'Sweet'): Z505
'Panner', 'Sweet'): 2504
'Sweet', 'Ghee'): 2504
'Tea Powder', 'Sweet'): 2503
('Lassi', 'Sugar'): 2503
('Sugar', 'Coffee Powder'): 2
'Ghee'): 2503
  ('Sugar', 'Correc londe.',
('Bread', 'Ghee') : 2503
('Butter', 'Coffee Powder') : 2502
('Lassi', 'Butter') : 2501
(b)
Cond. FP-tree on 'D':
{ (A:1, B:1, C:1,D:1),
```

After filtering by the threshold = 2, the conditional pattern base of 'D'is:

(A:1,D:1)

{ (A:1, D:1), (A:1, D:1)}