```
Dataset is:  [['Milk', 'Diapers', 'Beer', 'Cola'], ['Bread', 'Milk', 'Diapers', 'Beer'], ['Bread', 'Milk', 'Diapers', 'Cola']]
The dataset on apriori is  [['Milk', 'Diapers', 'Beer', 'Cola'], ['Bread', 'Milk', 'Diapers', 'Beer'], ['Bread', 'Milk', 'Diapers', 'Cola']]
The c1 before sort is  [['Milk'], ['Diapers'], ['Beer'], ['Cola'], ['Bread']]
This is the frozen set of C1 =

[frozenset({'Beer'}), frozenset({'Bread'}), frozenset({'Cola'}), frozenset({'Diapers'}), frozenset({'Milk'})]
printing D=
 [{'Beer', 'Milk', 'Diapers', 'Cola'}, {'Beer', 'Milk', 'Diapers', 'Bread'}, {'Milk', 'Diapers', 'Bread', 'Cola'}]
step to call scanning function
reached scanning
value in scanning dataset is============================== {'Beer', 'Milk', 'Diapers', 'Cola'}
value in scanning dataset is============================== {'Beer', 'Milk', 'Diapers', 'Bread'}
value in scanning dataset is============================== {'Milk', 'Diapers', 'Bread', 'Cola'}
The candidate data is === [frozenset({'Beer'}), frozenset({'Bread'}), frozenset({'Cola'}), frozenset({'Diapers'}), frozenset({'Milk'})]
no.of items 3.0
printing t {'Beer', 'Milk', 'Diapers', 'Cola'}
printing c frozenset({'Beer'})
printing c frozenset({'Bread'})
printing c frozenset({'Cola'})
printing c frozenset({'Diapers'})
printing c frozenset({'Milk'})
printing t {'Beer', 'Milk', 'Diapers', 'Bread'}
printing c frozenset({'Beer'})
printing c frozenset({'Bread'})
printing c frozenset({'Cola'})
printing c frozenset({'Diapers'})
printing c frozenset({'Milk'})
printing t {'Milk', 'Diapers', 'Bread', 'Cola'}
printing c frozenset({'Beer'})
printing c frozenset({'Bread'})
printing c frozenset({'Cola'})
printing c frozenset({'Diapers'})
printing c frozenset({'Milk'})
support: 0.6666666666666666
support: 0.6666666666666666
support: 1.0
support: 1.0
support: 0.6666666666666666
list after scanning: [frozenset({'Bread'}), frozenset({'Milk'}), frozenset({'Diapers'}), frozenset({'Cola'}), frozenset({'Beer'})]
support dictionary: {frozenset({'Beer'}): 0.6666666666666666, frozenset({'Cola'}): 0.6666666666666666, frozenset({'Diapers'}): 1.0, frozenset({'Milk'}): 1.0, frozenset({'Bread'}): 0.6666666666666666}
```

:::::::: {frozenset({'Beer'}): 0.6666666666666666, frozenset({'Cola'}): 0.6666666666666666, frozenset({'Diapers'}): 1.0, frozenset({'Milk'}): 1.0, frozenset({'Bread'}): 0.6666666666666666}
A ---------- [[frozenset({'Bread'}), frozenset({'Milk'}), frozenset({'Diapers'}), frozenset({'Cola'}), frozenset({'Beer'})]]
frequent[i] frozenset({'Bread'})
L1= []
L2= []
frequent[i] frozenset({'Bread'})
L1= []
L2= []
frequent[i] frozenset({'Bread'})
L1= []
L2= []
frequent[i] frozenset({'Bread'})
L1= []
L2= []
frequent[i] frozenset({'Milk'})
L1= []
L2= []
frequent[i] frozenset({'Milk'})
L1= []
L2= []
frequent[i] frozenset({'Milk'})
L1= []
L2= []
frequent[i] frozenset({'Diapers'})
L1= []
L2= []
frequent[i] frozenset({'Diapers'})
L1= []
L2= []
frequent[i] frozenset({'Cola'})
L1= []
L2= []
list after generation: [frozenset({'Milk', 'Bread'}), frozenset({'Diapers', 'Bread'}), frozenset({'Cola', 'Bread'}), frozenset({'Beer', 'Bread'}), frozenset({'Milk', 'Diapers'}), frozenset({'Milk', 'Cola'}), frozenset({'Beer', 'Milk'}), frozenset({'Cola', 'Diapers'}), frozenset({'Beer', 'Diapers'}), frozenset({'Beer', 'Cola'})]
reached scanning
value in scanning dataset is============================== {'Beer', 'Milk', 'Diapers', 'Cola'}
value in scanning dataset is============================== {'Beer', 'Milk', 'Diapers', 'Bread'}
value in scanning dataset is============================== {'Milk', 'Diapers', 'Bread', 'Cola'}
The candidate data is === [frozenset({'Milk', 'Bread'}), frozenset({'Diapers', 'Bread'}), frozenset({'Cola', 'Bread'}), frozenset({'Beer', 'Bread'}), frozenset({'Milk', 'Diapers'}), frozenset({'Milk',

'Cola'}), frozenset({'Beer', 'Milk'}), frozenset({'Cola', 'Diapers'}), frozenset({'Beer', 'Diapers'}), frozenset({'Beer', 'Cola'})]
no.of items 3.0
printing t {'Beer', 'Milk', 'Diapers', 'Cola'}
printing c frozenset({'Milk', 'Bread'})
printing c frozenset({'Diapers', 'Bread'})
printing c frozenset({'Cola', 'Bread'})
printing c frozenset({'Beer', 'Bread'})
printing c frozenset({'Milk', 'Diapers'})
printing c frozenset({'Milk', 'Cola'})
printing c frozenset({'Beer', 'Milk'})
printing c frozenset({'Cola', 'Diapers'})
printing c frozenset({'Beer', 'Diapers'})
printing c frozenset({'Beer', 'Cola'})
printing t {'Beer', 'Milk', 'Diapers', 'Bread'}
printing c frozenset({'Milk', 'Bread'})
printing c frozenset({'Diapers', 'Bread'})
printing c frozenset({'Cola', 'Bread'})
printing c frozenset({'Beer', 'Bread'})
printing c frozenset({'Milk', 'Diapers'})
printing c frozenset({'Milk', 'Cola'})
printing c frozenset({'Beer', 'Milk'})
printing c frozenset({'Cola', 'Diapers'})
printing c frozenset({'Beer', 'Diapers'})
printing c frozenset({'Beer', 'Cola'})
printing t {'Milk', 'Diapers', 'Bread', 'Cola'}
printing c frozenset({'Milk', 'Bread'})
printing c frozenset({'Diapers', 'Bread'})
printing c frozenset({'Cola', 'Bread'})
printing c frozenset({'Beer', 'Bread'})
printing c frozenset({'Milk', 'Diapers'})
printing c frozenset({'Milk', 'Cola'})
printing c frozenset({'Beer', 'Milk'})
printing c frozenset({'Cola', 'Diapers'})
printing c frozenset({'Beer', 'Diapers'})
printing c frozenset({'Beer', 'Cola'})
support: 1.0
support: 0.6666666666666666
support: 0.6666666666666666
support: 0.6666666666666666
support: 0.6666666666666666
support: 0.3333333333333333
support: 0.6666666666666666
support: 0.6666666666666666
support: 0.3333333333333333
support: 0.3333333333333333

list after scanning: [frozenset({'Diapers', 'Bread'}), frozenset({'Milk', 'Bread'}), frozenset({'Beer', 'Diapers'}), frozenset({'Cola', 'Diapers'}), frozenset({'Beer', 'Milk'}), frozenset({'Milk', 'Cola'}), frozenset({'Milk', 'Diapers'})]
support dictionary: {frozenset({'Milk', 'Diapers'}): 1.0, frozenset({'Milk', 'Cola'}): 0.6666666666666666, frozenset({'Beer', 'Milk'}): 0.6666666666666666, frozenset({'Cola', 'Diapers'}): 0.6666666666666666, frozenset({'Beer', 'Diapers'}): 0.6666666666666666, frozenset({'Milk', 'Bread'}): 0.6666666666666666, frozenset({'Diapers', 'Bread'}): 0.6666666666666666}

----------FREQUENT SETS----------
frequent sets::: [frozenset({'Diapers', 'Bread'}), frozenset({'Milk', 'Bread'}), frozenset({'Beer', 'Diapers'}), frozenset({'Cola', 'Diapers'}), frozenset({'Beer', 'Milk'}), frozenset({'Milk', 'Cola'}), frozenset({'Milk', 'Diapers'})]
---
frequent[i] frozenset({'Diapers', 'Bread'})
L1= ['Diapers']
L2= ['Milk']
frequent[i] frozenset({'Diapers', 'Bread'})
L1= ['Diapers']
L2= ['Beer']
frequent[i] frozenset({'Diapers', 'Bread'})
L1= ['Diapers']
L2= ['Cola']
frequent[i] frozenset({'Diapers', 'Bread'})
L1= ['Diapers']
L2= ['Beer']
frequent[i] frozenset({'Diapers', 'Bread'})
L1= ['Diapers']
L2= ['Milk']
frequent[i] frozenset({'Diapers', 'Bread'})
L1= ['Diapers']
L2= ['Milk']
frequent[i] frozenset({'Milk', 'Bread'})
L1= ['Milk']
L2= ['Beer']
frequent[i] frozenset({'Milk', 'Bread'})
L1= ['Milk']
L2= ['Cola']
frequent[i] frozenset({'Milk', 'Bread'})
L1= ['Milk']
L2= ['Beer']
frequent[i] frozenset({'Milk', 'Bread'})
L1= ['Milk']
L2= ['Milk']
frequent[i] frozenset({'Milk', 'Bread'})
L1= ['Milk']
L2= ['Milk']

```
frequent[i] frozenset({'Beer', 'Diapers'})
L1= ['Beer']
L2= ['Cola']
frequent[i] frozenset({'Beer', 'Diapers'})
L1= ['Beer']
L2= ['Beer']
frequent[i] frozenset({'Beer', 'Diapers'})
L1= ['Beer']
L2= ['Milk']
frequent[i] frozenset({'Beer', 'Diapers'})
L1= ['Beer']
L2= ['Milk']
frequent[i] frozenset({'Cola', 'Diapers'})
L1= ['Cola']
L2= ['Beer']
frequent[i] frozenset({'Cola', 'Diapers'})
L1= ['Cola']
L2= ['Milk']
frequent[i] frozenset({'Cola', 'Diapers'})
L1= ['Cola']
L2= ['Milk']
frequent[i] frozenset({'Beer', 'Milk'})
L1= ['Beer']
L2= ['Milk']
frequent[i] frozenset({'Beer', 'Milk'})
L1= ['Beer']
L2= ['Milk']
frequent[i] frozenset({'Milk', 'Cola'})
L1= ['Milk']
L2= ['Milk']

list after generation: [frozenset({'Milk', 'Cola', 'Bread'}), frozenset({'Milk', 'Diapers', 'Bread'}),
frozenset({'Beer', 'Milk', 'Diapers'}), frozenset({'Milk', 'Cola', 'Diapers'})]
reached scanning
value in scanning dataset is============================== {'Beer', 'Milk', 'Diapers', 'Cola'}
value in scanning dataset is============================== {'Beer', 'Milk', 'Diapers', 'Bread'}
value in scanning dataset is============================== {'Milk', 'Diapers', 'Bread', 'Cola'}

The candidate data is === [frozenset({'Milk', 'Cola', 'Bread'}), frozenset({'Milk', 'Diapers', 'Bread'}),
frozenset({'Beer', 'Milk', 'Diapers'}), frozenset({'Milk', 'Cola', 'Diapers'})]
no.of items 3.0
printing t {'Beer', 'Milk', 'Diapers', 'Cola'}
printing c frozenset({'Milk', 'Cola', 'Bread'})
printing c frozenset({'Milk', 'Diapers', 'Bread'})
printing c frozenset({'Beer', 'Milk', 'Diapers'})
printing c frozenset({'Milk', 'Cola', 'Diapers'})
```

```
printing t {'Beer', 'Milk', 'Diapers', 'Bread'}
printing c frozenset({'Milk', 'Cola', 'Bread'})
printing c frozenset({'Milk', 'Diapers', 'Bread'})
printing c frozenset({'Beer', 'Milk', 'Diapers'})
printing c frozenset({'Milk', 'Cola', 'Diapers'})
printing t {'Milk', 'Diapers', 'Bread', 'Cola'}
printing c frozenset({'Milk', 'Cola', 'Bread'})
printing c frozenset({'Milk', 'Diapers', 'Bread'})
printing c frozenset({'Beer', 'Milk', 'Diapers'})
printing c frozenset({'Milk', 'Cola', 'Diapers'})
support: 0.6666666666666666
support: 0.6666666666666666
support: 0.6666666666666666
support: 0.3333333333333333
list after scanning: [frozenset({'Milk', 'Diapers', 'Bread'}), frozenset({'Milk', 'Cola', 'Diapers'}),
frozenset({'Beer', 'Milk', 'Diapers'})]
support dictionary: {frozenset({'Beer', 'Milk', 'Diapers'}): 0.6666666666666666, frozenset({'Milk',
'Cola', 'Diapers'}): 0.6666666666666666, frozenset({'Milk', 'Diapers', 'Bread'}): 0.6666666666666666}
---------------
----------FREQUENT SETS--------------------
frequent sets:::  [frozenset({'Milk', 'Diapers', 'Bread'}), frozenset({'Milk', 'Cola', 'Diapers'}),
frozenset({'Beer', 'Milk', 'Diapers'})]
---------------------------------
frequent[i] frozenset({'Milk', 'Diapers', 'Bread'})
L1= ['Milk', 'Diapers']
L2= ['Milk', 'Cola']
frequent[i] frozenset({'Milk', 'Diapers', 'Bread'})
L1= ['Milk', 'Diapers']
L2= ['Beer', 'Milk']
frequent[i] frozenset({'Milk', 'Cola', 'Diapers'})
L1= ['Milk', 'Cola']
L2= ['Beer', 'Milk']
list after generation: []
reached scanning
value in scanning dataset is============================== {'Beer', 'Milk', 'Diapers', 'Cola'}
value in scanning dataset is============================== {'Beer', 'Milk', 'Diapers', 'Bread'}
value in scanning dataset is============================== {'Milk', 'Diapers', 'Bread', 'Cola'}
The candidate data is === []
no.of items 3.0
printing t {'Beer', 'Milk', 'Diapers', 'Cola'}
printing t {'Beer', 'Milk', 'Diapers', 'Bread'}
printing t {'Milk', 'Diapers', 'Bread', 'Cola'}
list after scanning: []
support dictionary: {}
```

----------FREQUENT SETS----------
frequent sets::: []
---
all frequent itemsets::: [[frozenset({'Bread'}), frozenset({'Milk'}), frozenset({'Diapers'}), frozenset({'Cola'}), frozenset({'Beer'})], [frozenset({'Diapers', 'Bread'}), frozenset({'Milk', 'Bread'}), frozenset({'Beer', 'Diapers'}), frozenset({'Cola', 'Diapers'}), frozenset({'Beer', 'Milk'}), frozenset({'Milk', 'Cola'}), frozenset({'Milk', 'Diapers'})], [frozenset({'Milk', 'Diapers', 'Bread'}), frozenset({'Milk', 'Cola', 'Diapers'}), frozenset({'Beer', 'Milk', 'Diapers'})], []]
