HW9

- Due: next Wed. 23:59:59
- Filename: HW#_StuID.zip
 - Ex) HW3_Q123456.zip

Tid	Items
001	A, C, D
002	В, С, Е
003	A, B, C, E
004	B, E

support
$$(X \rightarrow Y) = Prob.(X \cup Y)$$

 $min_support = 0.5$

- Frequent patterns
 - A, B, C, E
 - AC, BC, BE, CE
 - BCE

Tid	Items
001	A, C, D
002	B, C, E
003	A, B, C, E
004	B, E

confidence(
$$X \rightarrow Y$$
) = Prob.($X \cup Y/X$)

$$min_conf = 2/3$$

- Strong association rules
 - \circ {B, E} \to C (2/3)
 - \circ C \rightarrow A (2/3)
 - \circ A \rightarrow C (2/2)

Compute strong association rules from a given DB and user-defined min_supp and min_conf

Requirements:

- First, let users input the file name of the input DB.
- Second, let users input min_supp and min_conf.
- Read the DB and compute the strong association rules.
- Output all strong association rules.

- \rightarrow min_supp = 0.5 and min_conf = 0.66
- Example DB file:

```
00001 A,C,D
```

00002 B,C,E

00003 A,B,C,E

00004 B,E

00005 A,C,E

00006 B,C,D