'GREAT MOVIE COMEDY'

'AMERICA GREAT AGAIN'

SHUFFLE

2 [[GREAT, 2], [MOVIE, 1]]

AGAIN	2	AMERICA	2
COMEDY	2	BASKETBALL	1

(First third of alphabet)

'TRUMP COMEDY OSCARS'

'SPURS HOOP AGAIN'

2 [[COMEDY,1], [AGAIN,1]]

2 [[OSCARS,1], [SPURS,1]]

GREAT	3	HOOP	2
MOVIE	1		

(Second third of alphabet)

2 [[AMERICA,1], [BASKETBALL,1]]

2 [[GREAT,1],[HOOP,1]]

'TRUMP GREAT AMERICA'

'SPURS BASKETBALL HOOP'

OSCARS	1	SPURS	2
TRUMP	2		

(Final third of alphabet)

Required communications = O(10) for no intelligent clustering or partitioning

'AMERICA GREAT AGAIN'

'TRUMP GREAT AMERICA'

SHUFFLE

1 [AGAIN,1]

| TRUMP | 2 | AMERICA | 2 |
| GREAT | 3 | | |

(Politics Cluster)

'SPURS BASKETBALL HOOP'

'SPURS HOOP AGAIN'

| SPURS | 2 | BASKETBALL | 1 |
| HOOP | 2 | AGAIN | 2 |

(Sports Cluster)

1 [TRUMP,1]

'GREAT MOVIE COMEDY'

'TRUMP COMEDY OSCARS'

| OSCARS | 1 | COMEDY | 2 |
| MOVIE | 1 | | |

(Entertainment Cluster)
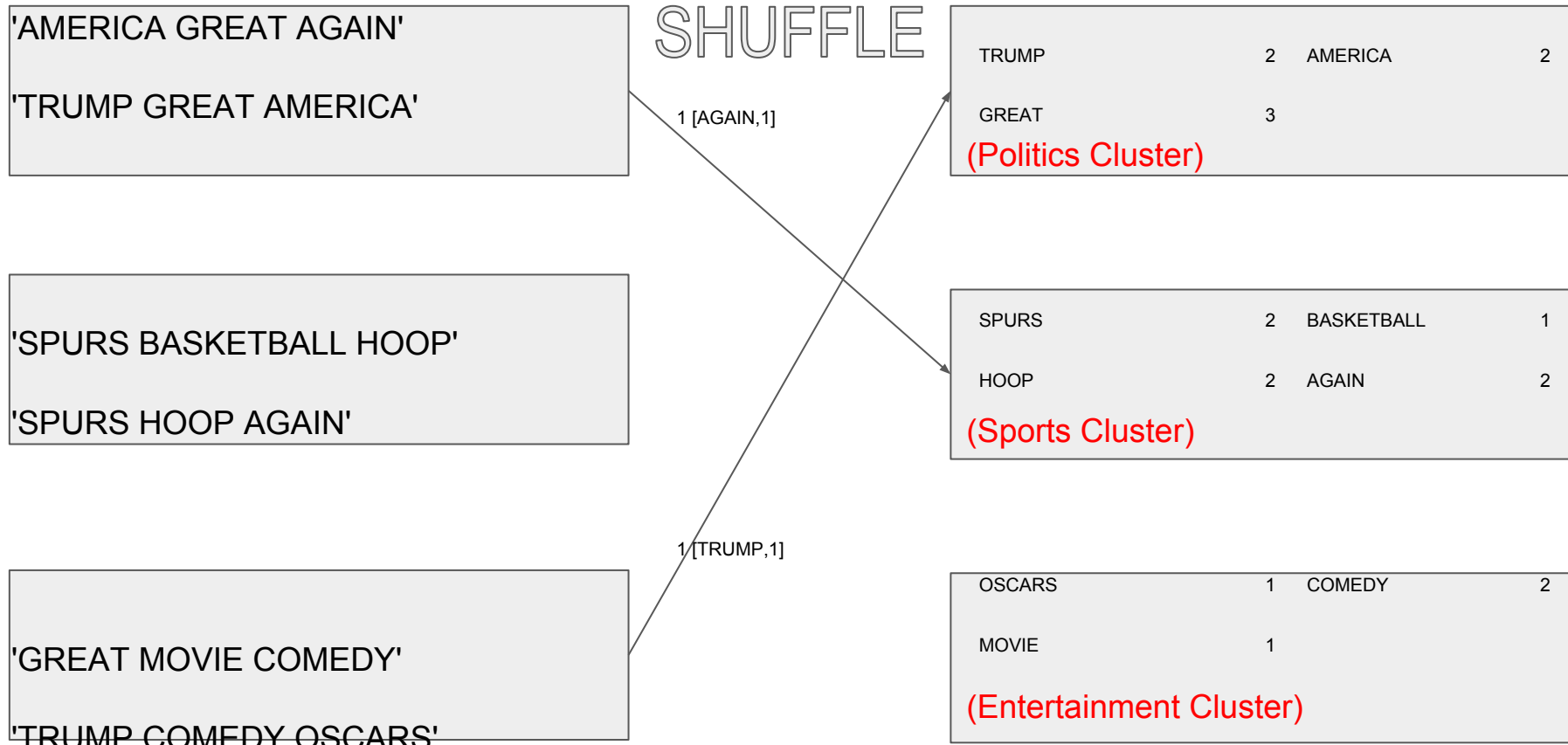
Required communications = O(2) for intelligent clustering and partitioning