

| | i_1 | i_2 | i_3 | i_4 | |
|-------|----------|-------|-------|-------|----------------|
| u_1 | ? | + | + | ? | user ↑ ↓ |
| u_2 | + | ? | ? | + | |
| u_3 | + | + | ? | ? | |
| u_4 | ? | ? | + | + | |
| u_5 | ? | ? | + | ? | |
| | ← item → | | | | |



| | i_1 | i_2 | i_3 | i_4 | |
|-------|----------|-------|-------|-------|----------------|
| u_1 | 0 | 1 | 1 | 0 | user ↑ ↓ |
| u_2 | 1 | 0 | 0 | 1 | |
| u_3 | 1 | 1 | 0 | 0 | |
| u_4 | 0 | 0 | 1 | 1 | |
| u_5 | 0 | 0 | 1 | 0 | |
| | ← item → | | | | |