Input:

(1) 5 home buildings: 101, 102, 103, 104, 105; 5 office buildings: 401, 402, 403, 404, 405;

5 home locations: 1, 3, 24, 13, 12; 5 office locations: 6, 7, 18, 19, 20.

Each home building can be assigned to any home location.

Each office building can be assigned to any office location.

(2) road network



Output:

|  |  |  |
| --- | --- | --- |
| Iteration (loop) | Assignment decisions | Changes of network (Closed Links) |
| 1 | 101🡪1 | 101🡪3,101🡪12,101🡪13,101🡪24  102🡪1,103🡪1,104🡪1,105🡪1 |
| 2 | 102🡪3 | 102🡪12,101🡪13,101🡪24  103🡪2,104🡪2,105🡪2 |
| 3 | 103🡪24 | 101🡪12,101🡪13  104🡪24,105🡪24 |
| 4 | 104🡪13 | 101🡪12  105🡪13 |
| 5 | 105🡪12 |  |
| 6 | 401🡪6 | 6🡪402,6🡪403,6🡪404,6🡪405  7🡪401,18🡪401,19🡪401,20🡪401 |
| 7 | 402🡪20 | 20🡪403,20🡪404,20🡪405  7🡪402,18🡪402,19🡪402 |
| 8 | 403🡪7 | 7🡪404,7🡪405  18🡪403,19🡪403 |
| 9 | 404🡪18 | 18🡪405  19🡪404 |
| 10 | 405🡪19 |  |