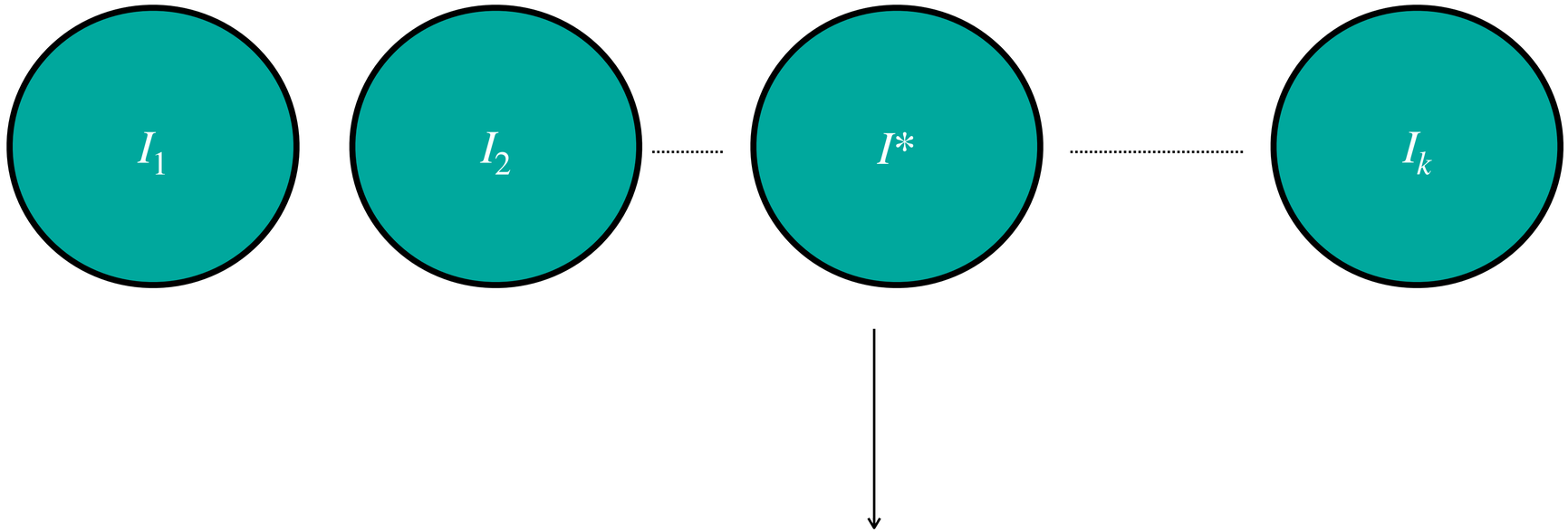
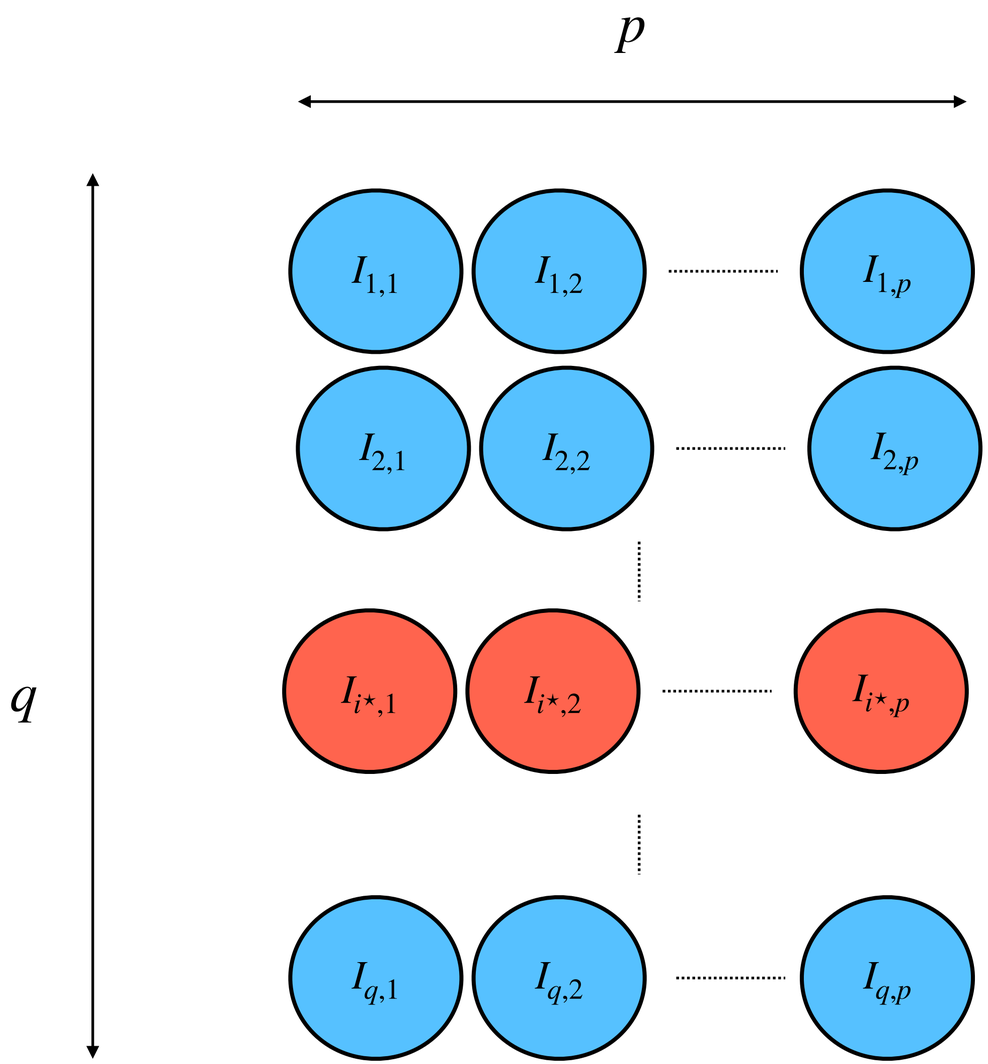
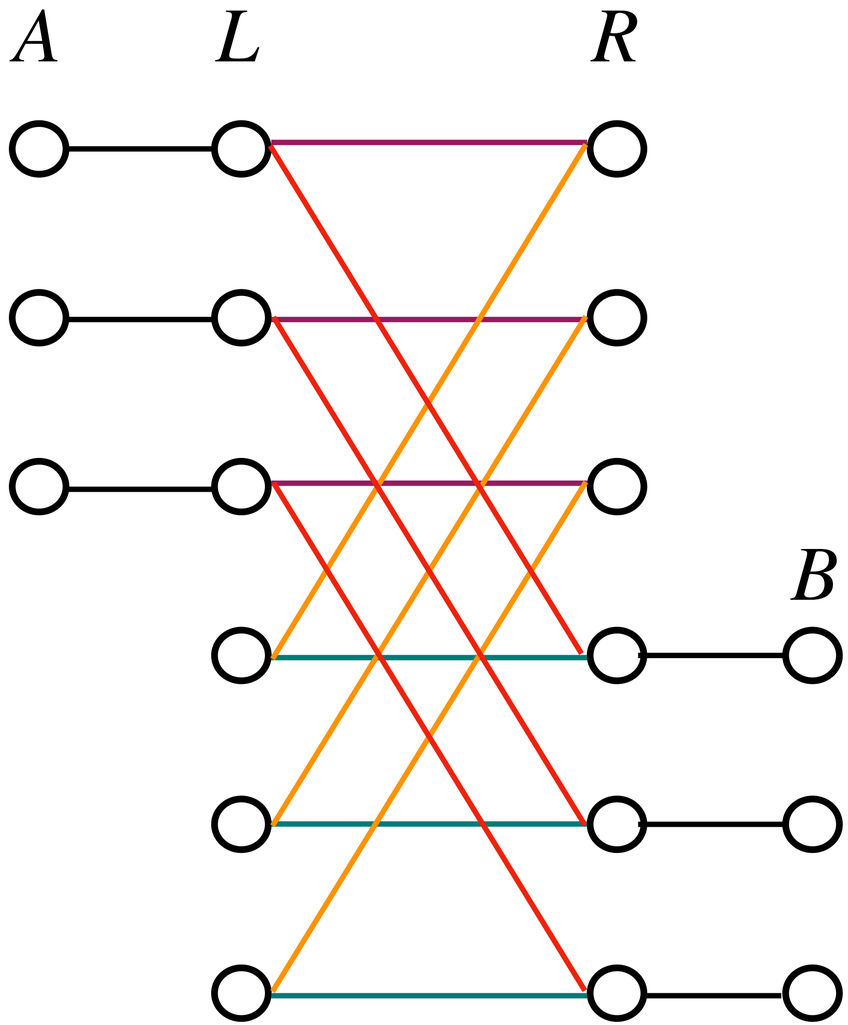
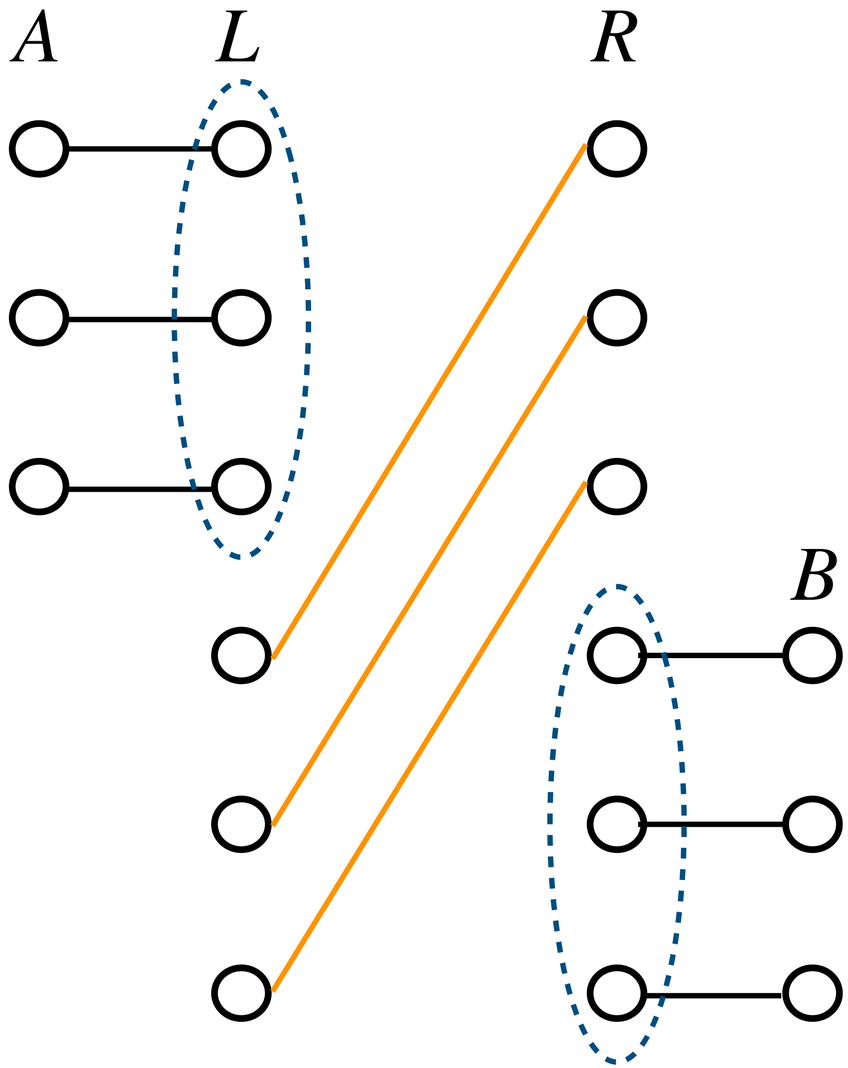
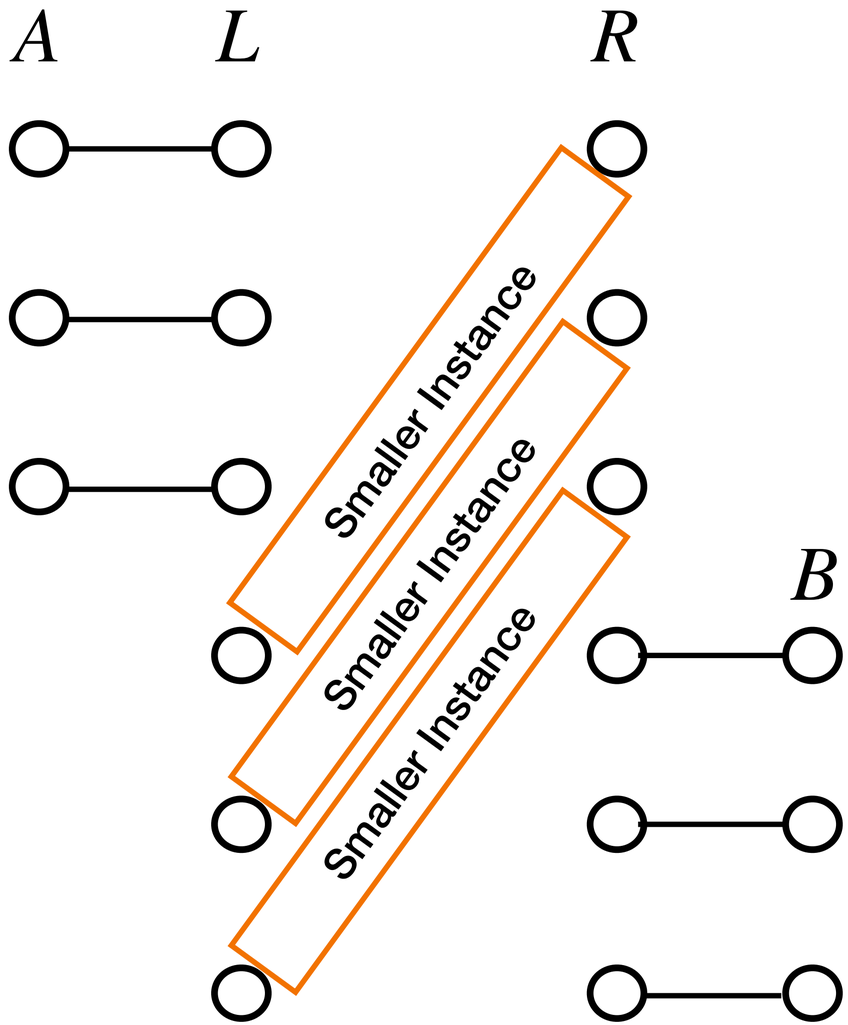
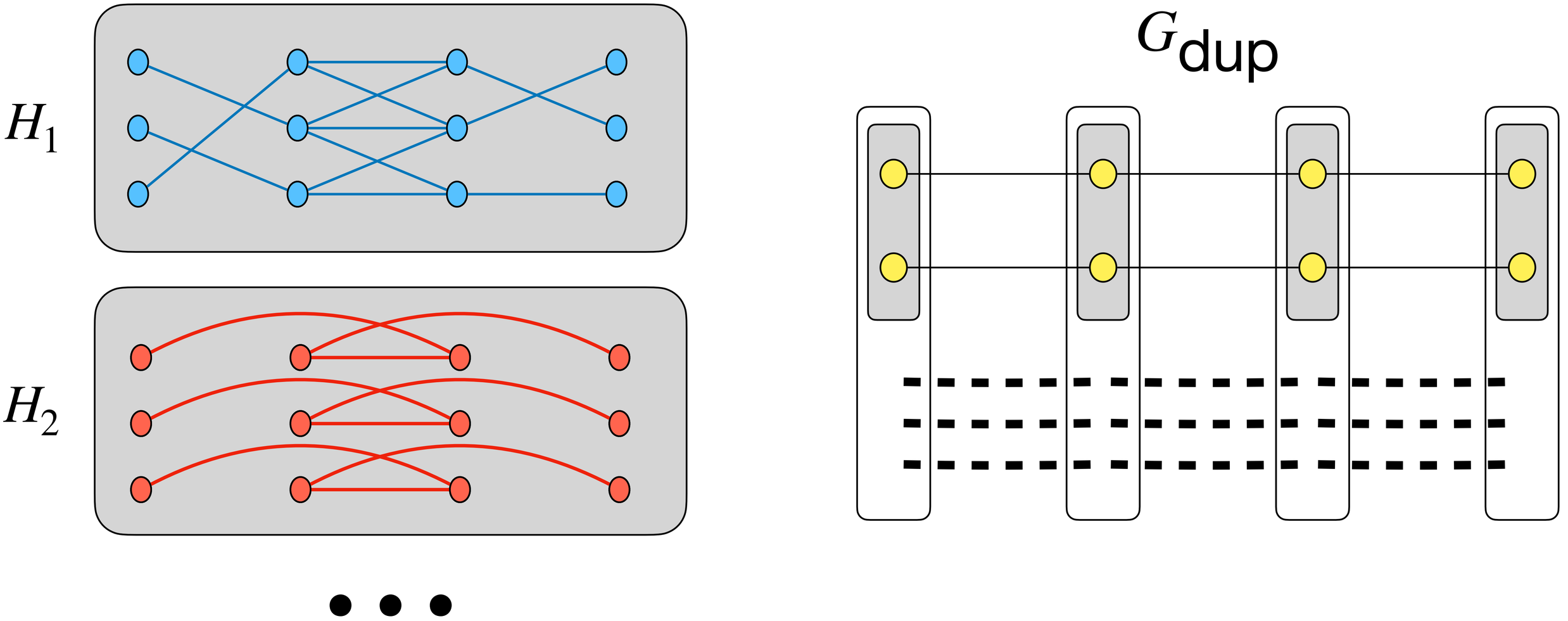

I_1
I_2
I^*
I_k
gives solution


p
q
$I_{1,1}$
$I_{1,2}$
$I_{1,p}$
$I_{2,1}$
$I_{2,2}$
$I_{2,p}$
$I_{i\star,1}$
$I_{i\star,2}$
$I_{i\star,p}$
$I_{q,1}$
$I_{q,2}$
$I_{q,p}$


A
L
R
B


A
L
R
B


A
L
R
B
Smaller Instance
Smaller Instance
Smaller Instance


H_1
H_2
G_{dup}

Embedding H_1, H_2 in G_{dup}

