Student Name:		
UTor ID:		

Quiz 2. Buffer replacement policies

You have implemented the following nested loop:

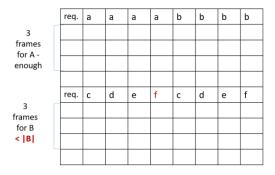
A: a, b B: c, d, e, f for each record i in A
for each record j in B
do something with i and j

You have 3 buffer frames available for table A, and 3 buffer frames for table B.

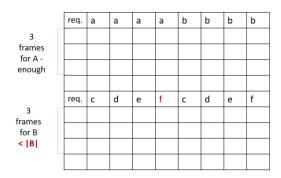
We know that if we use LRU replacement policy, we would have 2 disk I/Os for A and 8 disk I/Os for B: total 10 disk I/Os.

Count the total number of disk I/Os, if you use the following page replacement policies:

1. Most recently used (MRU)



2. LRU-2 (evict second least used)



Which replacement policy would you recommend for nested loops?