Student Name: _____

UTor ID: _____

Quiz 2. Disk algorithms

Suppose you have the following system: main memory which can hold at most 8 integers, and a disk with 2 integers per block.

As an input, you have the following file of 24 sorted integers:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Propose a two-pass algorithm which would shuffle these numbers, so they are written into a new file in a random order.

Write a high-level pseudocode or explain each phase in words. Use back of the page ->

Draw result of Phase 1:

Draw at least 3 first steps of phase 2: