You are given a linked list, and you need to compute the rank of each element of the list, i.e. the distance of that element from the end of the list.

Give a high-level idea of how would you solve this problem in parallel using pointer skipping. You can assume that the list is stored in a contiguous array, with a pointer to the next element in the list being a simple index of that element. For example, the following array:

```
A 0 1 B 0 3 F 0 ⊥ C 0 5 E 0 2 D 0 4
```

Represents the following list:

```
A 0 —> B 0 —> C 0 —> D 0 —> E 0 —> F 0
```

What is the total WORK that your solution would perform (integer addition counts as WORK(1), everything else is ignored)?