

Problem Statement -fastcopy

Objective: To copy list of array values from source to destination

Constraint:

1. At a time 8 values need to transfer from source list to destination list

2. Left over elements should copy using branching statement

Code	comments
def fast_copy(source, count): //function name fast_copy	
if count == 0: // initially count is 0	
n = count // 8 //since 8 elements need to group, division by 8	
remainder = count % 8 // remainder val will stored in var remainder	
src_index = 0	
dst_index = 0 //both source and destination index is 0	
while n > 0:	
dest[dst_index] = source[src_index]	
dest[dst_index + 1] = source[src_index + 1]	
dest[dst_index + 2] = source[src_index + 2]	starting from 0th index to
dest[dst_index + 3] = source[src_index + 3]	7 th index all elements are
dest[dst_index + 4] = source[src_index + 4]	copied from src to dest */
dest[dst_index + 5] = source[src_index + 5]	
dest[dst_index + 6] = source[src_index + 6]	
dest[dst_index + 7] = source[src_index + 7]	
n = n-1	
return dest	

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src_index += 8    // source index 8th element need to copy to destination index
dst_index += 8

if remainder>=1

    dest[dst_index ] = source[src_index ]
    source[src_index ] = source[src_index ] +1    /*Remainder value is
    dest[dst_index ]=dest[dst_index ]+1          checked using if condition and
                                                remainig leftover elements
if remainder>=2                                will be copied from source
                                                to destination*/
    dest[dst_index ] = source[src_index ]
    source[src_index ] = source[src_index ] +1
    dest[dst_index ]=dest[dst_index ]+1

if remainder>=3

    dest[dst_index ] = source[src_index ]
    source[src_index ] = source[src_index ] +1
    dest[dst_index ]=dest[dst_index ]+1

if remainder>=4

    dest[dst_index ] = source[src_index ]
    source[src_index ] = source[src_index ] +1
    dest[dst_index ]=dest[dst_index ]+1

if remainder>=5

    dest[dst_index ] = source[src_index ]
    source[src_index ] = source[src_index ] +1
    dest[dst_index ]=dest[dst_index ]+1

if remainder>=6

    dest[dst_index ] = source[src_index ]

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source[src_index] = source[src_index] +1  
dest[dst_index]=dest[dst_index]+1
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if remainder>=7  
    dest[dst_index] = source[src_index]  
    source[src_index] = source[src_index] +1  
    dest[dst_index]=dest[dst_index]+1
```

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