Saturday, 30 October 2021 8:21 PM Given an array (uncorted) containing tre first (N) naturnal no. 57 lengtu (N). Given a no k, find the largest permutation of the array you can build by applying k-operations (at morx) on it. In an operation, you can choose any 2 elements Eg: 81,2,3,43, k=1 arr. length -> 6
ele -> (1 - - . 6) N-1 N-& natural no. fixt N We already know the biggest 2 smallest Use a hout map (key ele) (Index) k = 3 4 3 5 4-> 4 -> BY1 2 - 124 · → 3 5 -> YO for (i=0 ; i<n; i++) enpire (arr[i])
map [arr[i]] = i; input (K) while (k--) { cur = el; int int cure_idx = map [cur];
int correct_idx = n-curr; ent el-to-be-swapped = aer [correct-idr]; swap (aer [cur. tdx], aer [correct. idx]); map [cuer] = correct _ édx map [el-to-be-swapped] = curidx; el-- 5 String without AAA 2 BBB. Write the most common letter first. aabaabaa A, 6 -> no. of a's 26's left to werite. [a= 4 / 5 y 3 a a b a a a while (2+150) & cheek for aa = (6) check for 66 Given 2 arrays, out of them, one is sorted, and other is unsorted. A → corted B → unsorted Shuffle B such that E, Aix Bi Es min possible where n is the array length. A = [-1, 0, 3, 4, 7][11,-2,5,1,12] [dec] x = Aix Bi + AiBi Need to prove (Bi Aix Bi + Bix Aj (Al Bit Aggi) — (AiBit + Aggi) ne boron At < AT 4 x - y 7, 0 >> x >y HX-y is -ve 772 we can prone x-y 20 because & isy Ai (Bi-Bj) - Aj (Bi-Bj) 70 (Bi - Bj) (Ai - Aj) To prove It my To make x-y>0we held Bi-Bj to be also negative. Bi- Bi <0 Bi° S Bj