Approach

i.e. n = n-1 = 3 blocks and n-1! = 2! = 2 elements

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Let us first take an example to under the idea:
Suppose n = 4.
So we have elements - 1,2,3,4
There are total n!=4!=24 permutations possible. We can see a specific pattern here:
arr
[1
                3
                       41
1234 2134 3124 4123
1243 2143 3142 4132
1324 2314 3214 4213
1342 2341 3241 4231
1423 2413 3412 4312
1432 2431 3421 4321
So we have 4 block with 6 elements each.
n = 4 we can take an array [1,2,3,4], initital ans = ""
lets say we have k = 15, the 15 th permutation is "3 2 1 4":
As we can see the first value is 3 that means out of the four blocks we need the 3rd block.
Each blocks has n-1! = 3! = 6 elements --> 15 = 6*2 + 3 i.e. we skip 2 blocks and our ans is the third element in the 3rd
      block
Let us assume the blocks are zero indexed.
Now 15 / 6 = 2; So we select the 2nd block (0-indexed) that means 2nd index in our array - 3
Now ans = "3"
Remove this element from the array and our array becomes: [1,2,4]
Now we are in this block:
3124 - 1
3142 - 2 Block 0
3 2 1 4 - 3 (ans)
3 2 4 1 - 4 Block 1
3412 - 5
3 4 2 1 - 6 Block 2
Now we have 3 blocks each of with 2 elements
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n = 3, what will be the k? As we passed 12 elements we have $k = 15-12 \Rightarrow$ the third element in this large block.

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k = 3
element in partition (p) = 2;
k/p = 3/2 = 1 \Rightarrow ans is in block 1, value to add to ans = 2
arr[1] = 2;
ans = "32"
remove 2 from array => [1,4]
Now we have 2 elements left(n-1 = 3-1)
32 14 Block 0
32 41 Block 1
n=2, k=1
1 will be added ans = "321" arr= [4]
As we only have one value value in array append it to ans. ans = "3214"
One very important note: (Corner case)
When we have k as a multiple of elements in partition for e.g. k = 12 Then we want to be in block with index 1
but as index = 12 / 6 = 2; we have to keep index = index-1;
Only when we are aiming at the last element we will hit this case.
Here the blocks are zero indexed but the elements inside them are 1 index.
Now we have 3 blocks each of with 2 elements
i.e. n = n-1 = 3blocks and n-1! = 2! = 2 elements
n = 3, what will be the k? As we passed 12 elements we have k = 15-12 \Rightarrow the third element in this large block.
k = 3
element in partition (p) = 2;
k/p = 3/2 = 1 \Rightarrow ans is in block 1, value to add to ans = 2
arr[1] = 2;
ans = "32"
remove 2 from array \Rightarrow [1,4]
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