HATFD1030

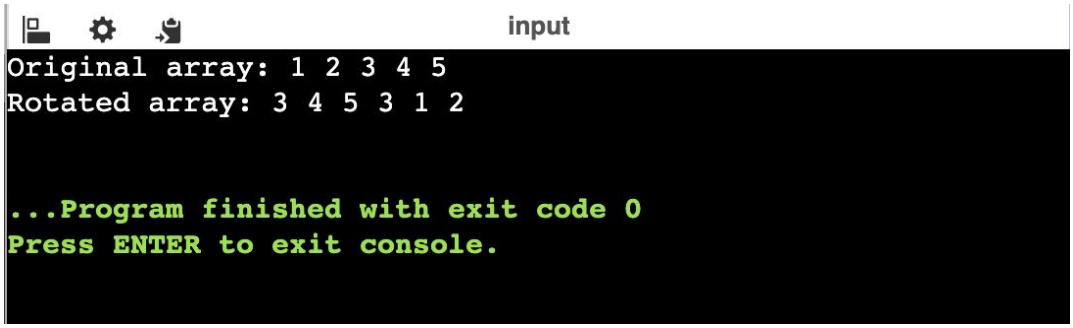
Problem Statement:

Rotate an Array Right by K Positions
Write a program to rotate an array right by k positions without using any built-in array or rotation
functions. For example, rotating [1, 2, 3, 4, 5] by 2 would give [4, 5, 1, 2, 3].
Instructions: You should implement the logic manually for rotating the array.

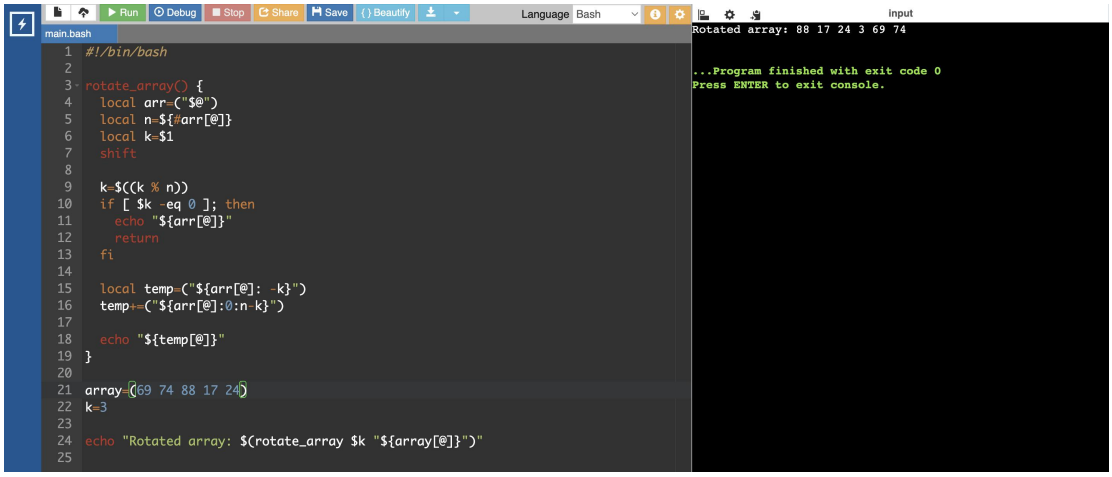
Solution Code:

```
#!/bin/bash

rotate_array() {
  local arr=("$@")
  local n=${#arr[@]}
  local k=$1
  shift

  k=$((k % n))
  if [ $k -eq 0 ]; then
    echo "${arr[@]}"
    return
  fi

  local temp=("${arr[@]: -k}")
  temp+=("${arr[@]:0:n-k}")

  echo "${temp[@]}"
}

array=(1 2 3 4 5)
k=2

echo "Original array: ${array[@]}"
echo "Rotated array: $(rotate_array $k "${array[@]}")"
```

Output:



Sample Output 1:



Sample Output 2: