Q.1 Write a program that will take one string as input. The program will then remove vowels a, e, i, o, u from the string. If there are two or more than two vowels that occur together then the program shall ignore all of those vowels.

Ans:
```
x=input()
array=[]
array2=["a","e","i","o","u"]
for i in range(len(x)):
    array.append(x[i])
for k in range(len(array)-1):
    if array[k] in array2:
        if array[k+1] == array[k]:
            break;
        else:
            array.remove(array[k])
print(''.join(array))
```

Q.2 Find the orginal string from a given set of substrings with each substring being 3 letters only
Below are the input:
Input1: N -> The number of sub-strings
Input2: The array of N substrings.
Constraint: 1<= N <= 1000000000
Example1:
Input1: 3
Input2:{ 42y, 2ya, ya6}
Output: 42ya6
Example2:
Input1: 2
Input2: { abb, bba}
Output: abba

Ans:

```
def find_original_string(n, substrings):
    original_string = substrings[0]
    for i in range(1, n):
        original_string += substrings[i][2]
    return original_string

n=int(input())
ll=input()
ll=ll[1:-1]
substrings=ll.split(",")
```

```
original_string = find_original_string(n, substrings)
print(original_string)
```

Q.3 Write an efficient program for printing k largest elements in an array. Elements in array can be in any order. Time Complexity: O(NlogN) + O(k)

Ans:

```
def findKLargest(arr, k):
  arr.sort(reverse=True)
  for i in range(0, k):
    print(arr[i], end=" ")

arr = [1, 23, 12, 9, 30, 2, 50]
k = 3
findKLargest(arr, k)
```

Q.4 Print only Prime Numbers from the input values of int.

```
 def is_prime(n):
    if n < 2:
        return False
    for i in range(2, int(n ** 0.5) + 1):
        if n % i == 0:
            return False
    return True

# Get the input values
n = int(input("Enter the number of values: "))
values = list(map(int, input("Enter the values separated by spaces: ").split()))

# Print the prime numbers
prime_numbers = [num for num in values if is_prime(num)]
print("Prime numbers:", prime_numbers)
```

More Question: https://github.com/checkcheckzz/coding-questions