def binary\_search(arr, left, right, target):  
    while left <= right:  
        mid = (left + right) // 2  
        if arr[mid] == target:  
            return mid  
        elif arr[mid] < target:  
            left = mid + 1  
        else:  
            right = mid - 1  
    return -1  
  
def exponential\_search(arr, target):  
    if arr[0] == target:  
        return 0  
    i = 1  
    while i < len(arr) and arr[i] <= target:  
        i \*= 2  
    return binary\_search(arr, i//2, min(i, len(arr)-1), target)  
  
ifсходный:",== "\_\_main\_\_":  
    a = [2, 4, 6, 8, 10, 12, 14, 16]  
    x = 14  
    print("Индекс элемента:", exponential\_search(a, x))