Perfect Plan B

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Problem : Python program to interchange first and last elements in a list

Examples:

Input : [12, 35, 9, 56, 24]

Output : [24, 35, 9, 56, 12]

Input : [1, 2, 3]

Output : [3, 2, 1]

Solution 1 : Python program to interchange first and last elements in a list

```
# Python3 program to swap first
# and last element of a list

# Swap function
def swapList(newList):
    size = len(newList)

    # Swapping
    temp = newList[0]
    newList[0] = newList[size - 1]
    newList[size - 1] = temp

    return newList

# Driver code
newList = [12, 35, 9, 56, 24]

print(swapList(newList))
```

Solution 2 : Python program to interchange first and last elements in a list

```
# Python3 program to swap first
# and last element of a list

# Swap function
def swapList(newList):

    newList[0], newList[-1] = newList[-1], newList[0]

    return newList

# Driver code
newList = [12, 35, 9, 56, 24]
print(swapList(newList))
```

Solution 3 : Python program to interchange first and last elements in a list

```
# Python3 program to swap first
# and last element of a list

# Swap function
def swapList(list):

    # Storing the first and last element
    # as a pair in a tuple variable get
    get = list[-1], list[0]

    # unpacking those elements
    list[0], list[-1] = get

    return list

# Driver code
newList = [12, 35, 9, 56, 24]
print(swapList(newList))
```

Solution 4 : Python program to interchange first and last elements in a list

```
# Python3 program to swap first
# and last element of a list

# Swap function
def swapList(list):

        first = list.pop(0)
        last = list.pop(-1)

        list.insert(0, last)
        list.append(first)

        return list

# Driver code
newList = [12, 35, 9, 56, 24]

print(swapList(newList))
```

Problem : Python program to check if a string is palindrome or not

Examples:

Input : malayalam
Output : Yes

Input : geeks
Output : No

Solution 1 : Python program to check if a string is palindrome or not

```
# function which return reverse of a string

def isPalindrome(s):
        return s == s[::-1]


# Driver code
s = "malayalam"
ans = isPalindrome(s)

if ans:
        print("Yes")
else:
        print("No")
```

Solution 2 : Python program to check if a string is palindrome or not

```
# function to check string is
# palindrome or not
def isPalindrome(str):

        # Run loop from 0 to len/2
        for i in xrange(0, len(str)/2):
                if str[i] != str[len(str)-i-1]:
                        return False
        return True

# main function
s = "malayalam"
ans = isPalindrome(s)

if (ans):
        print("Yes")
else:
        print("No")
```

Solution 3 : Python program to check if a string is palindrome or not

```
# function to check string is
# palindrome or not
def isPalindrome(s):

        # Using predefined function to
        # reverse to string print(s)
        rev = ''.join(reversed(s))

        # Checking if both string are
        # equal or not
        if (s == rev):
                return True
        return False

# main function
s = "malayalam"
ans = isPalindrome(s)
```

Problem : Python program to create a list of tuples from given list having number and its cube in each tuple

Example:

```
Input: list = [1, 2, 3]
Output: [(1, 1), (2, 8), (3, 27)]

Input: list = [9, 5, 6]
 Output: [(9, 729), (5, 125), (6,

 216)]
```

Solution : Python program to create a list of tuples from given list having number and its cube in each tuple

```
# Python program to create a list of tuples
# from given list having number and
# its cube in each tuple

# creating a list
list1 = [1, 2, 5, 6]

# using list comprehension to iterate each
# values in list and create a tuple as specified
res = [(val, pow(val, 3)) for val in list1]

# print the result
print(res)
```

Problem : Python | Print an Inverted Star Pattern

Examples:

```
Below is the inverted star pattern of size
n=5
  (Because there are 5 horizontal lines
   or rows consist of stars).
```

```
*****
****
***
**
*
```

Solution : Python | Print an Inverted Star Pattern

```
# python 3 code to print inverted star
# pattern

# n is the number of rows in which
# star is going to be printed.
n=11

# i is going to be enabled to
# range between n-i t 0 with a
# decrement of 1 with each iteration.
# and in print function, for each
iteration,
# ” ” is multiplied with n-i and ‘*’ is
# multiplied with i to create correct
# space before of the stars.
for i in range (n, 0, -1):
        print((n-i) * ' ' + i * '*')
```

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