**Q:-1**

**Replace Character Recursively**

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Given an input string S and two characters c1 and c2, you need to replace every occurrence of character c1 with character c2 in the given string.

Do this recursively.

**Input Format :**

Line 1 : Input String S

Line 2 : Character c1 and c2 (separated by space)

**Output Format :**

Updated string

**Constraints :**

1 <= Length of String S <= 10^6

**Sample Input :**

abacd

a x

**Sample Output :**

Xbxcd

**Q:-2**

**Remove Duplicates Recursively**

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Given a string S, remove consecutive duplicates from it recursively.

**Input Format :**

String S

**Output Format :**

Output string

**Constraints :**

1 <= Length of String S <= 10^3

**Sample Input :**

aabccba

**Sample Output :**

abcba

**Q:-3**

**Merge Sort Code**

Send Feedback

Sort an array A using Merge Sort.

Change in the input array itself. So no need to return or print anything.

**Input format :**

Line 1 : Integer n i.e. Array size

Line 2 : Array elements (separated by space)

**Output format :**

Array elements in increasing order (separated by space)

**Constraints :**

1 <= n <= 1000

**Sample Input:**

6

2 6 8 5 4 3

**Sample Output:**

2 3 4 5 6 8

**Q:-4**

**Quick Sort Code**

Send Feedback

Sort an array A using Quick Sort.

Change in the input array itself. So no need to return or print anything.

**Input format :**

Line 1 : Integer n i.e. Array size

Line 2 : Array elements (separated by space)

**Output format :**

Array elements in increasing order (separated by space)

**Constraints :**

1 <= n <= 1000

**Sample Input:**

6

2 6 8 5 4 3

**Sample Output:**

2 3 4 5 6 8

**Q:-5**

**Return Keypad Code**

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Given an integer n, using phone keypad find out all the possible strings that can be made using digits of input n.

Return empty string for numbers 0 and 1.

**Note : The order of strings are not important.**

**Input Format :**

Integer n

**Output Format :**

All possible strings in different lines

**Constraints :**

1 <= n <= 10^6

**Sample Input:**

23

**Sample Output:**

ad

ae

af

bd

be

bf

cd

ce

cf

**Q:-6**

**Return Keypad Code**

Send Feedback

Given an integer n, using phone keypad find out all the possible strings that can be made using digits of input n.

Return empty string for numbers 0 and 1.

**Note : The order of strings are not important.**

**Input Format :**

Integer n

**Output Format :**

All possible strings in different lines

**Constraints :**

1 <= n <= 10^6

**Sample Input:**

23

**Sample Output:**

ad

ae

af

bd

be

bf

cd

ce

cf