```
class Solution {
    public List<String> letterCasePermutation(String S) {
        List<String> res = new ArrayList<>();
        helper(res, new StringBuilder(), S, 0);
        return res;
    }

    private void helper(List<String> res, StringBuilder sb, String s, int idx) {
        if (sb.length() == s.length()) {
            res.add(sb.toString());
            return;
        }

        char c = s.charAt(idx);
        if (Character.isLetter(c)) {
            sb.append(Character.toUpperCase(c));
            helper(res, sb, s, idx+1);
            sb.deleteCharAt(sb.length()-1);
            sb.append(Character.toLowerCase(c));
            helper(res, sb, s, idx+1);
        } else {
            sb.append(c);
            helper(res, sb, s, idx+1);
        }
        sb.deleteCharAt(sb.length()-1);
    }
}
```

Given a string S, we can transform every letter individually to be lowercase or uppercase to create another string. Return a list of all possible strings we could create.

Examples:

Input: S = "a1b2"
Output: ["a1b2", "a1B2", "A1b2", "A1B2"]

Input: S = "3z4"
Output: ["3z4", "3Z4"]

Input: S = "12345"
Output: ["12345"]