1. A string consists of '0', '1' and '?'. The question mark can be either '0' or '1'. Find all possible combinations for a string.

0 011?11?110

```
def main ():
    root = Node ()

    curr_nodes = [root]
    input = input ("Enter a bitstring: \n")
    for x in input:
        if (x == '0' or x == '1'):
            push_to_all (curr_nodes, x)

        if (x == '?') :
            split_all_and_init (curr_nodes)
            advance (curr_nodes)

    print_string (root)


class Node () :
        def __init__ (self, payload = " ", left = None, right = None) :
            self.payload = payload
            self.left = left
            self.right = right
def push_to_all (nodes, x):
```

```python
    for node in nodes:
        node.payload.append(x)


def split_all_and_init(nodes):
    for node in nodes:
        left = Node(0, None, None)
        right = Node(1, None, None)
        node.left = left
        node.right = right

def advance(nodes):
    for node in nodes:
        left = node.left
        right = node.right
        nodes.remove(node)
        nodes.append(left)
        nodes.append(right)

def print_string(root, prev_payload)
    new payload = prev_payload + root.payload
    if root.left is not None and root.right is not None:
        print_string(root.left, new_payload)
        print_string(root.right, new_payload)
    else:
        print(new_payload)
```