Friends Pairing

```python
def friendsPairing(n):
    visited = [False] * (n + 1)
    friendsPairingUtil(n, 1, visited, '')
    return


def friendsPairingUtil(n, i, visited, asf):
    if i > n:
        print(asf)
        return
    if visited[i] is True:
        friendsPairingUtil(n, i + 1, visited, asf)
    else:
        visited[i] = True
        friendsPairingUtil(n, i + 1, visited, asf + '(' + str(i) + ')')
        for j in range(i + 1, n + 1):
            if visited[j] is False:
                visited[j] = True
                friendsPairingUtil(n, i + 1, visited, asf + '(' + str(i) +
str(j) + ')')
                visited[j] = False
        visited[i] = False


friendsPairing(3)
```