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def verifie(L):
    n = len(L)
    if n % 2 == 0:
        return False
    s = 0
    for k in range(n-1):
        if abs(L[k]) != 1:
            return False
        s += L[k]
        if s < 0:
            return False
    if L[n-1] == -1 and s == 0:
        return True
    else:
        return False

def nombreMots(n):
    if n % 2 == 0:
        return 0
    nM = [1]
    p = n // 2
    for k in range(1, p+1):
        nM.append(sum(nM[j] * nM[k-j-1] for j in range(k)))
    return nM[-1]

print(nombreMots(25)) # 208012
print(nombreMots(39)) # 1767263190

# si n = 2p+1, nombreMots(n) vaut bin(2p, p) / (p+1)

```