

```
4 prime(N, K):-
 5
       N =:= K.
 6 prime(N, K):-
 7
       K < N,
       N mod K =\= 0.
8
9
       prime(N, K+1).
10
11 subS([],[]).
12 subS([H|T], [H|Res]):-
13
       subS(T, Res).
14 subS([_|T], Res):-
15
       subS(T, Res).
16
17 allPrime([]).
18 allPrime([H|T]):-
       prime(H, 2),
19
20
       allPrime(T).
21
22 sumS([], 0).
23 sumS([H|T], S):-
24
       sumS(T, S1),
25
       S is S1 + H.
26
27 primeSubs(L, N):-
28
       allPrime(L).
29
       sumS(L, S),
30
       S =:= N.
31
32 % L has elements [1, N]
33 rez(N, Rez):-
34
       numlist(1, N, L),
35
       subS(L, Rez),
36
       primeSubs(Rez, N).
37
38 main(N, Rez):-
39
       findall(Res, rez(N, Res), Rez).
```

II.

```
1 ; N -node, Level, Elem
2 (defun replaceOdd (N Lvl E)
3 (cond
4 ((atom N)
5 (cond
6 ((= 1 (mod Lvl 2)) E)
7 (t N)
8 )
9 )
10 (T (mapcar #'(lambda (x) (replaceOdd x (+ 1 Lvl) E)) N))
11 )
12 )
13
14 (print (replaceOdd '(1 d (2 d (d) (1)) 3) 0 'x))
```