Collatz conjecture: the Ellawing process always Stops in a finite # of stops. Start with NEZT. until n = 1, do this: if n is even, divide by 2. (a) else multiply by 3 + add1. (b) E.S.; N=S. $S \Rightarrow 16 \Rightarrow 8 \Rightarrow 4 \Rightarrow 2 \Rightarrow 2$ Lucas sequences Ex PQEZ, deline a seguence as $follows: a_0 = 0$. $a_1 = 1$. $f_{n} > 1$ $a_{n} = f_{a_{n-1}} - Q a_{n-2}$ (Note: if P=1 + Q=-1, this is just the fibonacci sequence.) Outline of the code: variables: n,P,Q: input Uso loop from i=2... n. Couvert will

Start by term i=2...

One before: 0

courrent: P

while (i < n) {

i++ i

// everything is now out of late!

two observe = one before;

one before = current;

current = P x one barbare - Q x toolowine;

in variant is liked!

Cout << current << n';