```
procedure FWT
    n = 2^d ← size of array X where d is positive integer
    for i = 0 to d − 1 do
        m = n/2^i
        z = m/2
        for j = 0 to 2^i − 1 do
            for k = 0 to z − 1 do
                t1 = m × j + k
                t2 = m × j + z + k
                a = X[t1]
                b = X[t2]
                X[t1] = a + b
                X[t2] = a − b
            end for
        end for
    end for
    return X
end procedure
```