TEST RUN OUTPUT

```
                  2 -2
weight W(x)=(1 + x )
                     x
argument z(x)=------------
                        2
             Sqrt[1 + x ]
integration region {a,b}={1, Infinity}
Degree of formula
 n=4
Precision
 moment Nm=50
 Jacobi Nz=25
 final  Na=17
 MachinePrecision=16
FORTRAN file
 gqxw.f
Evaluating moment z^i W[x]...
Orthogonal polynomial and Jacobi matrix ...
...50%
...75%
...100%
abscissas {0.725610434425301342313994,
0.795805509405582427436538,
 0.890372229527047353679517, 0.969426624379258248160651}
weights
{0.0319563752092992623741676, 0.0537448706922135512958188,
 0.0425331553011516332903633, 0.0144646804960597078474826}
Check results
      exact moment,       moment by GQ,    (relative error)
  m0: 0.142699081698724155, 0.142699081698724155, (0.e-18)
  m1: 0.117851130197757921, 0.117851130197757921, (0.e-18)
  m2: 0.098174770424681039, 0.098174770424681039, (0.e-18)
  m3: 0.082495791138430545, 0.082495791138430545, (0.e-18)
  m4: 0.069920718545673853, 0.069920718545673853, (0.e-18)
  m5: 0.059767358886005803, 0.059767358886005803, (0.e-18)
  m6: 0.051512949091046158, 0.051512949091046158, (0.e-18)
  m7: 0.044755369682243782, 0.044755369682243782, (0.e-18)
*** computation time=1[sec]
```