```
Hello, World!
test mag= 1.000000e+00
test ang= 4.500000e+01
**********test realToMag **********
test1 mag= 1.414214e+00
test1 ang= 4.500000e+01
**********test realToMag **********
test magnitude= 1.000000e+00
test angle= 4.500000e+01
test real= 7.071068e-01
test imag= 7.071068e-01
test s11 mag= 6.410000e-01
test s11 ang= -1.713000e+02
s1,1 mag= 6.410000e-01
s1,1 angle= -1.713000e+02
s1,2 mag= 5.700000e-02
s1,2 angle= 1.630000e+01
s2,1 mag= 2.058000e+00
s2,1 angle= 2.850000e+01
s2,2 mag= 5.720000e-01
s2,2 angle= -9.570000e+01
s11s22 magnitude= 3.666520e-01
s11s22 angle= -2.670000e+02
s12s21 magnitude= 1.173060e-01
s12s21 angle= 4.480000e+01
delta magnitude= 3.014276e-01
delta angle= 1.098649e+02
s11Sq mag= 4.108810e-01
test s22 mag= 5.720000e-01
s22Sq mag= 3.271840e-01
s11Sq mag= 4.108810e-01
s22Sq mag= 3.271840e-01
```

```
deltaSq= 9.085862e-02
s12s21 mag= 1.173060e-01
K= 1.503732e+00
B1= 9.928384e-01
B2= 8.254444e-01
s22conjugate magnitude= 5.720000e-01
s22conjugate angle= 9.570000e+01
C1 magnitude= 4.786198e-01
C1 angle= -1.772990e+02
C2 magnitude= 3.911323e-01
C2 angle= -1.039397e+02
gamaMs magnitude= 7.481891e-01
gamaMs angle= 1.772990e+02
gamaML magnitude= 7.183843e-01
gamaML angle= 1.039397e+02
Program ended with exit code: 0
```