

```
PROGRAM rps2ps
REAL X(100000),Y(10000),psi
INTEGER I,mm
mm=100000
do 10 i=1,mm
  READ(*,*,END=11) X(i),Y(i)
10 continue
11 mm=i-1
do 25 i=1,mm
  psi=atan(sqrt(Y(i)))
  write(*,*) x(i),psi
25 continue
END
```