

Secret Numbers-2014-01-31.sagews

February 8, 2014

Contents

```
p= \
53726173292898650039224045995210297438794072403314420344737692270909266525133919387
```

```
set_random_seed()      # this is harder than it looks :-)
n = ZZ.random_element(p)
print "n=", n
n= 306205857590319481308141917230272104115665997762809529545992788491918183489180097516873
090916399970575886789959580016664227823936689490200840130650724275
```

```
t = Mod(2,p)^n
```

```
print t
257516246142302575205785574761934174409561054107888501586712932371349279769761100323539723
9765313722103873639396782412746268105527086389359102702371104826
```

```
t0 = \
90339324707007055380516795880086835795338824131162026572107624220203543557512958759
```

```
secret = Mod(t0,p)^n
print secret
149032038724906479240939253707458471560020977624547277123838569156207597582941264876393698
0986605215275215366860064409471494633605160365693469674399203812
```