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#Code written by Fermibot
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```
#Defining constants here*)
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```
s1 = 1403580  
t1 = 810728  
s2 = 527612  
t2 = 1370589  
m1 = 4294967087  
m2 = 4294944443  
m3 = 429496708
```

```
seed = [1, 2, 3, 4, 5, 6]
```

```
#Defining function below*)
```

```
def MRG32k3a(seed):  
    p1 = ((s1*seed[0]) - (t1*seed[1])) % m1  
    p2 = ((s2*seed[3]) - (t2*seed[4])) % m2  
    z = (p1 - p2) % m1  
    if z > 0:  
        u = z/m3  
    elif z == 0:  
        u = m1/m3  
  
    return [seed[1], seed[2], p1, seed[4], seed[5], p2]
```

```
mat = []  
for n in range(0, 10000):  
    seed = MRG32k3a(seed)  
    mat.append(seed)
```

```
print(mat[9999])
```