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import random

k=random.getrandbits(128)
m=random.getrandbits(128)
kb=bin(k)[2:]
mb=bin(m)[2:]
kb1=kb[0:64]
kbr=kb[64:]
mb1=mb[0:64]
mbr=mb[64:]
a1=int(kb1,2)^int(mbr,2)
a2=int(kbr,2)^int(mb1,2)
a3=a1^a2
a4=bin(a3)[2:].zfill(64)
a5=a4[0:32]
a6=a4[32:]
a7=int(a5,2)^int(a6,2)
print("128 Bit Key = ",kb)
print("128 Random Bits Generated = ",mb)
print("RES/SRES = ",bin(a7)[2:].zfill(len(a5)))

```

```

128 Bit Key = 100001010000110101001100010000111101100000101011000001100101110111100100110010000101101101110110110110110010001001001001111101000111
128 Random Bits Generated = 1010011001111100101110110100111000010011110011011101000000101100010111110001110111100111110000100110100011111011001101001
1000
RES/SRES = 00100101011111010111001010000110

```