



```
i=1;
while i <= 9:
    j=1
    while j <= 9:
        print(f' {j} x {i} = {i*j:<2}', end=' ')
        j+=1

    i += 1
    print(' ')
```

1x1=1	2x1=2	3x1=3	4x1=4	5x1=5	6x1=6	7x1=7	8x1=8	9x1=9
1x2=2	2x2=4	3x2=6	4x2=8	5x2=10	6x2=12	7x2=14	8x2=16	9x2=18
1x3=3	2x3=6	3x3=9	4x3=12	5x3=15	6x3=18	7x3=21	8x3=24	9x3=27
1x4=4	2x4=8	3x4=12	4x4=16	5x4=20	6x4=24	7x4=28	8x4=32	9x4=36
1x5=5	2x5=10	3x5=15	4x5=20	5x5=25	6x5=30	7x5=35	8x5=40	9x5=45
1x6=6	2x6=12	3x6=18	4x6=24	5x6=30	6x6=36	7x6=42	8x6=48	9x6=54
1x7=7	2x7=14	3x7=21	4x7=28	5x7=35	6x7=42	7x7=49	8x7=56	9x7=63
1x8=8	2x8=16	3x8=24	4x8=32	5x8=40	6x8=48	7x8=56	8x8=64	9x8=72
1x9=9	2x9=18	3x9=27	4x9=36	5x9=45	6x9=54	7x9=63	8x9=72	9x9=81

```

import random

answer = random.sample(range(1, 10), 4)
print(answer)

a = b = n = 0
num = 0

while a != 4:
    a = b = n = 0
    user = input('請輸入四個數字(不會重複)')
    userint = user
    user = list(user)

    while len(user) > 4:
        user = input('輸入數字過多，請輸入四個數字(不會重複)')
        userint = user
        user = list(user)

    for i in user:
        if int(user[n]) == answer[n]:
            a += 1
        else:
            if int(i) in answer:
                b += 1
            n += 1

    a = str(a)
    b = str(b)
    n = str(n)
    out = a + "A" + b + "B"
    print(f"{userint}", ":", out)
    a = int(a)
    b = int(b)
    num += 1

print(f"答對了!總共猜了{num}次")

```

```

[8, 6, 4, 1]
請輸入四個數字(不會重複)12345
輸入數字過多，請輸入四個數字(不會重複)1234
1234 : 0A2B
請輸入四個數字(不會重複)8642
8642 : 3A0B
請輸入四個數字(不會重複)8641
8641 : 4A0B
答對了!總共猜了3次

```