```
import ÔÏÒÃÈ
import ÔÏÒÃÈłÎÎ as ÎÎ
import ÔÏÒÃÈłÏÐÔÉÍ as ÏÐÔÉÍ
import ÔÏÒÃÈłÎÎłÆÕÎÃÔÉÏÎÁÌ as &
import ÎÕÍÐÙ as ÎÐ
from ÔÑÄÍłÎÏÔÅÂÏÏË import ÔÑÄÍ
from ÔÏÒÃÈłÕÔÉÌÓłÔÅÎÓÏÒÔÁÒÄ import 3ÕÍÍÁÒÙ7ÒÉÔÅÒ
import ÏÓ
import ÇÌÏÂ

# #ÏÎÆÉÇÕÒÅ ÄÅÖÉÃÅ ÔÏ ÕÓÅ GP5 ÉÆ ÁÖÁÉÌÁÂÌÅ, ÏÔÈÅÒ×ÉÓÅ ÕÓÅ #P5
ÄÅÖÉÃÅ = ÔÏÒÃÈ.      ѕʌÃÕÄÁkȼʌ if ÔÏÒÃÈ.ÃÕÄÁ.           ѕѣ      ʌÃÐÕʌѣ
```

```
def ÇÅÎÅÒÁÔÅмÕÎÉÑÕÅмÎÏÎÏÇÒÁÍѕÇÒÉÄмÓÉÚÅł ÂÁÔÃÈмÓÉÚÅł ÅØÉÓÔÉÎÇмÓÏÌÎÕÔÉÏÎÓ=ÓÅÔѕѣѣk
    YYY
    'ÅÎÅÒÁÔÅ ÕÎÉÑÕÅ .ÏÎÏÇÒÁÍ ÐÕÚÌÅÓ ×ÉÔÈ ÃÏÒÒÅÓÐÏÎÄÉÎÇ ÃÌÕÅÓł

    0ÁÒÁÍÅÔÅÒÒÓk
    W ÇÒÉÄмÓÉÚÅ ѕÉÎÔѣk 3ÉÚÅ ÏÆ ÔÈÅ .ÏÎÏÇÒÁÍ ÇÒÉÄł
    W ÂÁÔÃÈмÓÉÚÅ ѕÉÎÔѣk .ÕÍÅÅÒ ÏÆ .ÏÎÏÇÒÁÍ ÐÕÚÌÅÓ ÔÏ ÇÅÎÅÒÁÔÅł
    W ÅØÉÓÔÉÎÇмÓÏÌÎÕÔÉÏÎÓ ѕÓÅÔѣk 3ÅÔ ÏÆ ÅØÉÓÔÉÎÇ ÓÏÌÎÕÔÉÏÎÓ ÔÏ ÁÖÏÉÄ ÄÕÐÌÉÃÁÔÅÓł

    2ÅÔÕÒÎÓk
```

```
def ÐÁÄмÃÌÕÅÓѕÃÌÕÅÓł
```

```

```

```

```

```
ÍÏÖÅ = ÁÃÔÉÏÎÓǁȼǂ
ÒÏ×ł ÃÏÌł ÓÔÁÔÅѡÖÁÌÕÅ = ÍÏÖÅ
ÍÏÖÅѡÃÏÕÎÔÅÒ += ʦ
ÐÒÉÎÔƵÆʏʌÎ
```

```
ÁÌÌ5ÓÅÌÆ.ÓÔÁÔÅ‖É‡ ÒÏ×‡ Ã‡ == ÓÅÌÆ.
```

```
ÒÏ× = ÐÏÓÉÔÉÏÎmÉÄØ // ÓÅÌÆ.ÇÒÉÄmÓÉÚÅ
   Æ=ÆÐÏÓÉÔÉÏÎmÉÄØ
```

#ÕÒÒÅÎÔ ÓÕÚÌÅ 3ÔÁÔÅk