

Correction Bac pratique 2022*Nombre semi premier*

```
from PyQt5.uic import loadUi
from PyQt5.QtWidgets import QApplication
```

```
def premier(x):
```

```
    i=2
```

```
    ok=True
```

```
    while ok==True and i<=x//2:
```

```
        if x % i ==0:
```

```
            ok=False
```

```
        else :
```

```
            i=i+1
```

```
    return ok
```

```
def SemiPremier(N):
```

```
    ok=False
```

```
    if not premier(N):
```

```
        i=2
```

```
        while not ok and i<=N//2:
```

```
            if premier(i):
```

```
                j=N//i
```

```
                if premier(j) and N==i*j:
```

```
                    ok=True
```

```
                i=i+1
```

```
    return ok
```

```
def Play():
```

```
    Nch=windows.n.text()
```

```
    if not (Nch.isdecimal()) or int(Nch)<=2 :
```

```
        msg="Veuillez introduire un nombre >2"
```

```
    else:
```

```
        if SemiPremier(int(Nch)) :
```

```
            msg=Nch+" est Semi Premier"
```

```
        else:
```

```
            msg=Nch+" n'est pas Semi Premier"
```

```
    windows.res.setText(msg)
```

```
app=QApplication([])
```

```
windows=loadUi("InterfaceSemipremier.ui")
```

```
windows.show()
```

```
windows.verif.clicked.connect(Play)
```

```
app.exec()
```