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"""
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@author: kenne
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prime number program
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print all of the prime numbers less than 1000
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```
first prime is 2, and thereafter there are no even primes
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"""
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```
import numpy as np
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```
print('The first prime number is 2')
```

```
for n in range(3, 1001, 2):
```

```
    top = int(np.sqrt(n)) + 1
```

```
    prime = True
```

```
    for test in range(3, top):
```

```
        if n % test == 0:
```

```
            prime = False
```

```
            break
```

```
    if prime:
```

```
        print('{},{}'.format(n, n % 6))i
```