

22 NSI 22

```
In [ ]: def crible(N):  
        """renvoie un tableau contenant tous les nombres premiers plus petit que  
        N"""  
        premiers = []  
        tab = [True] * N  
        tab[0], tab[1] = False, False  
        for i in range(..., N):  
            if tab[i] == ...:  
                premiers.append(...)  
                for multiple in range(2*i, N, ...):  
                    tab[multiple] = ...  
        return premiers
```

```
In [ ]: assert crible(40) == [2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37]
```

