

```
1 import numpy as np
2 from InputVariables import nx, ngc
3 from FixedVariables import nw
4
5
6 def cmax(lam, nx):
7     lmax = 0
8     for i in range(nx + 2*ngc):
9         for j in range(nw):
10             test = np.abs(lam[i][j])
11             if test > lmax:
12                 lmax = test
13             else:
14                 lmax = lmax
15     return lmax
16
17 def computeTimeStep(lam, dx, nx):
18     lamda = cmax(lam, nx)
19     return dx/(lamda)
20
21
```