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```
        state, i.e. d(r_i)/d(v_j)
"""


def calc_methodA(vnp1, vn, vnm1, dt, tn, evalf, evalf_v):
    """
    Implementation for numerical method A.

    See docstring given at the top of this file.
    """
    #### BEGIN SOLUTION ####
    r = (vnp1 - 4*vn/3 + vnm1/3)/dt - 2*evalf(vnp1, tn+dt)/3
    r_v = np.ones((len(vn), len(vn)))/dt - 2*evalf_v(vnp1, tn+dt)/3
    return (r, r_v)
    #### END SOLUTION ####


def calc_methodB(vnp1, vn, vnm1, dt, tn, evalf, evalf_v):
    """
    Implementation for numerical method B.

    See docstring given at the top of this file.
```

```
sandipan.dey@gmail.com cse-c20:~$
```