Input $(m, \boldsymbol{r}, \boldsymbol{v})$

Det. particles to move

Prediction $(\boldsymbol{r}_{\text{pred}}, \boldsymbol{v}_{\text{pred}})$

$T_{int} = T_{int} + 1$

Force calculation $(\boldsymbol{a}, \dot{\boldsymbol{a}})$

Correction $(\boldsymbol{r}_{\text{corr}}, \boldsymbol{v}_{\text{corr}})$

$T_{int} = T$?

Output