## Algorithm 1 FVFI + Piecewise Linear Interpolation + Grid

```
initialize v (array of size: N)
initialize v' (array of size: N)
initialize x_{grid} = (x_i)_{i=1}^N
repeat

for i = 1 to N do
v'(x_i) \leftarrow \max_{c \in \Gamma(x)} \{u(c) + \beta \text{interp}(x_{grid}, v, x - c)\}
end for
\text{set } e = d_{\infty}(v, v')
\text{set } v = v'
until e is less than some tolerance
```