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| Segment 2: OC scheme |
| **Input:** Density vector ***x***, Bound of Lagrange multipliers *Ll, Lmid, Lr*.  **Output:** New density vector ***xnew***  1: *Lmid ← 0.5\* (Lr+Ll)*;  2: **while** *(Lr-Ll)\*(Lr+Ll)>tol* **do**  **%** Call function of segment 1  3:***xnew*** *← variableUpdate( x, move, Lmid,* ***dc****,* ***dv*** *)*;  4: **if** *sum(****xnew****)* *> volfrac\*nelx\*nely\*nelz* **do**  *Ll ← Lmid*  5:**else do**  *Lr ← Lmid*  6: ***end***  7: **end**;  8: **Return *xnew***; |