	DATE: 26-02-2025 12:03:57 USER: PRIANO JOB: BNCHMRK PA	GE: 0002
-	y(i, i) = y(i, i) - dt * ((u(i, i) * (y(i+1, i) - y(i-1, i))) / (7*1)	1412THE
	v(i, j) = v(i, j) - dt * ((u(i, j) * (v(i+1, j) - v(i+1, j)) / (2*dy)) $end do$ $end do$ $t + t + t + t$	1 2 3 4
		5 6 7
	Interior to solve for pressure (simplified Poisson equation solver) subroutine update pressure(p, dx, dy) real, dimension(:,:), intent(inout) :: p real, intent(in), :: dx, dy integer :: i,	8 9 10 11
1	real, intent(in), :: dx, dy integer :: i,	12 13 14 15
	Simple pressure Poisson equation ()acobi iteration) do i = 2, 1-1 1	16 17 18
1 1 1	Simple pressure Poisson equation () acobi iteration) do $1 = 7$, $1 - 1$ end do $1 = 7$, $1 - 1$ end do $1 = 7$, $1 - 1$ end do $1 = 7$, $1 - 1$ end do $1 = 7$, $1 - 1$ end do $1 = 7$	20 21 22
	end do end subroutine update_pressure	23 24 25
2 2	end program lid_driven_cavity	26 27 28
2	¹ 22	30 31
2	24 25 26	32 33 34
2	227 228	35 36 37
	29	38 39 40
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3	34 35 36	45 46 47 48
3	37 38	48 49 50 51
	39	52 53 54
	 42 43	55 56 57
4	14 15	58 59 60
4	46 47 48	61 62 63
4	49 50	64 65 66 67
	51	68 69 70
	53 54 55	71 72 73
5	55 57	74 75
5	58 59 60	76 77 78 79 80