	DATE: 13-02-2025 12:42:11 USER: FRANCO DOB: BAICHMAK FAGE: 00	200
	v(i, j) = v(i, j) - dt * ((u(i, j) * (v(i+1, j) - v(i-1, j))) / (2*dy) , end do $(v(i, j) * (v(i, j+1) - v(i, j-1))) / (2*dy)$	1 1412THE 2 3
	end subroutine compute velocitu	4 5 6 7 8
9	Function to solve for pressure (simplified Poisson equation solver) subroutine update pressure(p, dx, dy) real, dimension(:,:), intent(inout) :: \$ real, intent(in), :: dx, dy integer :: i)	9 10 11 12 13
	Integer :: 1, $\int_{1}^{2} \int_{1}^{2} $	14 15 16 17 18
1	_ ENG GO	19 20 21 22 23
	end subroutine update_pressure end program lid driven cavitu	24 25 26 27 28
2 2 2 2	4 4 5	30 31 32 33 34
2 2 2 2	7	35 36 37 38 39
3 3 3 3		40 41 42 43 44
333333	5 6	45 46 47 48 49
3 3 4 4		50 51 52 53 54
4	2	55 56 57 58 59 60
444	6 7	60 61 62 63 64 65
5 5 5	0	66 67 68 69 70
5 5 5	4 <u> </u>	71 72 73 74 75
5 5 6	8	76 77 78 79 80