

opcode Assembly C Program moy R1, #5 (6=5) ADD R2, RO, R1 dest Syc1 Syc2 map (c variables → Assembly vars)

[regis ter allocation]

[RO - - - R12]

1) Arithmetic ofcodes.

	ADD RO, RI, R2		$R_0 = R_1 + R_2$
	SUB	Ro, R1, R2	$\mathcal{R}_0 = \mathcal{R}_1 - \mathcal{R}_2$
2) Logical	opcodes.		
<i>U</i>	AND	Ro, Ri, R2	Ro = R, & R ₂
	ORR	Ro, R, , R2	$\mathcal{R}_0 = \mathcal{R}_1 / \mathcal{R}_2$
	m∨N	20, 2,	$\chi_0 = \sim \chi_1$

[10] L3L Ro, R1, R2 Ro = R1 << R2

J << 2

LSR Ro, R1, R2 Ro = R1 >> R2

[0100] PO RO, R1, #5 (Immediate)

ADD RO, R1, R2 (Regssler)

Loops - (IF-ELSE) [Control Flow op-codes]

C program

Assembly

RD
$$\Rightarrow$$
 G= 3;

The array of the companion of the codes of the codes

