PRACTICA 7: OBTENER EL "CODIGO MAQUINA" DE LOS DIRECCIONAMIENTOS INDIZADOS COMPLEJOS.

## TALLER PROGRAMACION DE SISTEMAS P7

## PRÁCTICA 7: OBTENER EL "CODIGO MAQUINA" DE LOS DIRECCINAMIENTOS INDIZADOS COMPLEJOS.

En esta práctica continuaran obteniendo el código maquina de los modos de direccionamiento, toca turno a los modos de direccionamiento indizado, para este programa modifiquen o complemente (como lo quieran ver) la practica anterior, recuerden estar guardando sus prácticas de la 1 a la 10, porque al final tienen el ensamblador pero siempre trabajaron con el mismo archivo y por mera consulta ya no saben que parte era el código de la practica 1 etc...

**Práctica 7**: Obtener el código maquina de los direccionamientos indizados complejos. Modificar la practica 6 para obtener estos códigos maquina. El proceso base se centra en lo siguiente:

- Leer cada línea del archivo temporal de listado (lst).
- Por cada línea del archivo temporal, identificar sus cuatro partes y asignar sus valores a las variables: VALOR, ETIQUETA, CODOP y OPERANDO.
- Una vez identificadas las partes analizar la información encontrada, por cada modo de direccionamiento el procedimiento es
  distinto.

## INDIZADO DE 16 BITS: FORMA "[IDX2]", REGISTROS X, Y, SP, PC. DE 0 A 65535 (VALORES DECIMALES)

- Buscar en el TABOP el valor de la variable CODOP.
- Recuperar del TABOP el código maquina en formato hexadecimal (ya sea de un o dos bytes).
- Imprimir en pantalla por cada línea del archivo TEMPORAL (Ist) el código maquina encontrado.

VALOR	ETIQUETA	CODOP	OPERANDO	CODIGO MAQUINA CALCULADO
0000	NULL	ORG	\$0	
0000	NULL	LDAA	[10,X]	A6E3000A
0004	NULL	LDAA	[31483,X]	A6E37AFB
0008	NULL	END		

Si buscamos en el TABOP la instrucción LDAA encontramos que:

- El código maquina calculado para [IDX2] es A6
- El código maquina por calcular dice "xbeeff" y se corresponde a tres bytes

¿Cómo calcular el byte "xb"?

- Se puede hacer de dos maneras:
  - o Utilizando una formula.
  - Creando una tabla de "bytes xb" para su consulta.

PRACTICA 7: OBTENER EL "CODIGO MAQUINA" DE LOS DIRECCIONAMIENTOS INDIZADOS COMPLEJOS.

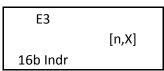
#### 1. Formula:

Postbyte Code (xb)	Source Code Syntax	Valores de "rr", X=00, Y=01, SP=10, PC=11
111rr011	[n,r]	0 <n<65535< td=""></n<65535<>
	n,r	r puede ser X, Y, SP o PC
	-n,r	

Si tenemos "[10,X]", entonces:

- o rr=00 porque el registro X=0
- Sustituyendo en 111rr011 tenemos:
  - **11100011**
  - tomando los primeros 4 bits es igual a E.
  - tomando los segundos 4 bits es igual a 3.
  - el resultado es E3.
- Concatenar el valor encontrado en el TABOP con el valor del byte XB, quedando entonces A6E3.
- Luego concatenar el valor de "n" en los dos bytes "eeff" ( complementado con ceros a la izquierda) cuando sea necesario, quedando entonces "A6E3000A".

#### 2. TABLA:



- La tabla debe de contener :
  - o El valor del byte xb
  - o la sintaxis propuesta
  - o un indicador, por ejemplo, 16bIndr
- Si tenemos [10,X] entonces:
  - o Consultar el modo de Direccionamiento (indizado de 16 bits indirecto) en la tabla.
  - Si hay coincidencia entonces extraer el valor del byte xb.
  - Concatenar el valor encontrado en el TABOP con el valor del byte XB, quedando entonces A6E3.
  - Luego concatenar el valor de "n" en los dos bytes "eeff" ( complementando con ceros a la izquierda) cuando sea necesario, quedando entonces "A6E3000A".

# INDIZADO DE ACUMULADOR "D" INDIRECTO: FORMA [D,IDX]; REGISTRO DEL LADO IZQUIERDO; D; REGISTRO DEL LADO DERECHO: X, Y, SP O PC).

Buscar en el TABOP el valor de la variable CODOP.

- Recuperar del TABOP el código maquina en formato hexadecimal (ya sea de un o dos bytes).
- Imprimir en pantalla por cada línea del archivo TEMPORAL (lst) el código maquina encontrado.

VALOR	ETIQUETA	CODOP	OPERANDO	CODIGO MAQUINA CALCULADO
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## PRACTICA 7: OBTENER EL "CODIGO MAQUINA" DE LOS DIRECCIONAMIENTOS INDIZADOS COMPLEJOS.

0000	NULL	ORG	\$0	
0000	NULL	JMP	[D,PC]	05FF
0002	NULL	ADCA	[D,X]	A9E7
0004	NULL	ADCB	[D,SP]	E9F7
0006	NULL	ADDA	[D,Y]	ABEF
0008	NULL	END		

Si buscamos en el TABOP la instrucción ADCA encontramos que:

- el código maquina calculado para [D,IDX] es A9.
- el código maquina por calcular dice "xb" y se corresponde con un byte.

¿Cómo calcular el byte "xb"?

- se puede hacer de dos maneras
  - o utilizando una formula
  - o creando una tabal de "bytes xb" para su consulta.

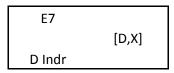
#### 1. FORMULA

Postbyte Code (xb)	Source Code Syntax	Valores de "rr", X=00, Y=01, SP=10, PC=11
111rr111		
	[D,r]	
		r puede ser X, Y, SP o PC

Si tenemos [D,X] entonces:

- rr=00 porque el registro X=00
- sustituyendo en 111rr111 tenemos:
  - o **11100111**
  - o tomando los primeros 4 bits es igual a E.
  - o tomando los segundos 4 bits es igual a 7
  - o el resultado es E7.
- Concatenar el valor encontrado en el TABOP con el valor del byte "xb", quedando entonces A9E7

#### 2. TABLA:



- o la tabla debe de contener:
  - El valor del byte xb
  - la sintaxis propuesta
  - un indicador, por ejemplo, D Indr
- Si tenemos [D,X] entonces:
  - Consultar el modo de direccionamiento (indizado de acumulador "D") en la tabla

## PRACTICA 7: OBTENER EL "CODIGO MAQUINA" DE LOS DIRECCIONAMIENTOS INDIZADOS COMPLEJOS.

- si hay coincidencia entonces extraer el valor del byte xb
- concatenar el valor encontrado en el TABOP con el valor del byte XB, quedando entonces A9E7.

## **TABLA DE BYTES XB**

	T 40	1 00	1 00	1 40	1 50	T 60	1 70	T 00	1	1 40				T = 2	1 50
00	10	20	30	40	50	60	70	80	90	A0	B0 1,SP+	CO	D0 -16,PC	E0	F0
0,X 5b	–16,X 5b	1,+X pre-	1,X+	0,Y 5b	_16,Y 5b	1,+Y	1,Y+ post-	0,SP 5b	–16,SP 5b	1,+SP	post-	0.PC	5b	n,X	n,SP
const	const	inc	inc	const	const	pre- inc	inc	const	const	pre-inc	inc	const	const	9b const	9b const
01	11	21	31	41	51	61	71	81	91	A1	B1	C1	D1	E1	F1
1,X	_15,X	2.+X	2.X+	1,Y	-15,Y	2,+Y	2,Y+	1,SP	_15,SP	2,+SP	2,SP+	1.PC	-15,PC	n,X	_n,SP
5b	5b	pre-	post-	5b	5b	pre-	post-	5b	5b		post-	5b	5b	1	
const	const	inc	inc	const	const	inc	inc	const	const	pre-inc	inc	const	const	9b const	9b const
02	12	22	32	42	52	62	72	82	92	A2	B2	C2	D2	E2	F2
2,X	-14,X	3,+X	3,X+	2,Y	-14,Y	3,+Y	3,Y+	2,SP	-14,SP	3,+SP	3,SP+	2,PC	-14,PC	n,X	n,SP
5b	5b	pre-	post-	5b	5b	pre-	post-	5b	5b	pre-inc	post-	5b	- 5b	16b	16b
const	const	inc	inc	const	const	inc	inc	const	const	<u> </u>	inc	const	const	const	const
03	13	23	33	43	53	63	73	83	93	A3	B3	C3	D3	E3	F3
3,X	-13,X	4,+X	4,X+	3,Y	_13,Y	4,+Y	4,Y+	3,SP	-13,SP	4,+SP	4,SP+	3,PC	-13,PC	[n,X]	[n,SP]
5b	5b	pre-	post-	5b	5b `	pre-	post-	5b	5b	pre-inc	post-	5b .	5b	16b indr	16b indr
const	const	inc	inc	const	const	inc	inc	const	const		inc	const	const		
04	14	24	34	44	54	64	74	84	94	A4	B4	C4	D4	E4	F4
4,X	_12,X	5,+X	5,X+	4,Y 5b	-12 Y   5b	5,+Y	5,Y+	4,SP 5b	–12,SP 5b	5,+SP	5,SP+ post-	4,PC 5b	-12,PC 5b	A,X	A,SP
5b	5b	pre- inc	post-	const		pre- inc	post- inc	const		pre-inc	inc	const	const	A offset	A offset
const 05	const 15	25	inc 35	45	const 55	65	75	85	const 95	A5	B5	C5	D5	E5	F5
5,X	_11,X	6,+X	6,X+	5,Y	-11,Y	6,+Y	6,Y+	5,SP	-11,SP	6,+SP	6,SP+	5,PC	-11,PC	B,X	B,SP
5b	5b	pre-	post-	5b	5b	pre-	post-	5b	5b		post-	5b	5b		1 1
const	const	inc	inc	const	const	inc	inc	const	const	pre-inc	inc	const	const	B offset	B offset
06	16	26	36	46	56	66	76	86	96	A6	B6	C6	D6	E6	F6
6,X	_10,X	7,+X	7,X+	6,Y	-10,Y	7,+Y	7,Y+	6,SP	-10,SP	7,+SP	7,SP+	6,PC	-10,PC	D,X	D,SP
5b	5b	pre-	post-	5b	5b	pre-	post-	5b	5b	pre-inc	post-	5b	5b	D offset	D offset
const	const	inc	inc	const	const	inc	inc	const	const	<u> </u>	inc	const	const		
07	17	27	37	47	57	67	77	87	97	A7	B7	C7 ·	D7	E7	F7
7,X	–9,X	8,+X	8,X+	7,Y	-9,Y	8,+Y	8,Y+	7,SP	-9,SP	8,+SP	8,SP+	7,PC	-9,PC	[D,X]	[D,SP]
5b	5b	pre-	post-	5b	5b	pre-	post-	5b	5b	pre-inc	post-	5b	5b	D	P
const	const	inc ·	inc	const	const	inc	inc	const	const		inc	const	const	indirect	indirect
08	18	28	38	48	58	68	78	88	98	A8	B8	C8	Ď8	É8	F8
08 8,X	18 -8,X	28 8,–X	38 8,X-	48 8,Y	58 8,Y	68 8,–Y	78 8,Y-	88 8,SP	98 8,SP	A8 8,–SP	B8 8,SP-	C8 8,PC	D8 -8,PC		
08 8,X 5b	18 _8,X 5b	28 8,–X pre-	38 8,X- post-	48 8,Y 5b	58 8,Y 5b	68 8,–Y pre-	78 8,Y post-	88 8,SP 5b	98 8,SP 5b	A8 8,–SP pre-	B8 8,SP- post-	C8 8,PC 5b	D8 -8,PC 5b	É8	F8
08 8,X 5b const	18 -8,X 5b const	28 8,–X pre- dec	38 8,X- post- dec	48 8,Y 5b const	58 -8,Y 5b const	68 8,-Y pre- dec	78 8,Y– post- dec	88 8,SP 5b const	98 8,SP 5b const	A8 8,–SP pre- dec	B8 8,SP- post- dec	C8 8,PC 5b const	D8 -8,PC 5b const	E8 n,Y 9b const	F8 n,PC 9b const
08 8,X 5b const	18 -8,X 5b const	28 8,-X pre- dec 29	38 8,X- post- dec 39	48 8,Y 5b const 49	58 -8,Y 5b const	68 8,-Y pre- dec 69	78 8,Y- post- dec 79	88 8,SP 5b const	98 -8,SP 5b const 99	A8 8,–SP pre- dec A9	B8 8,SP- post- dec B9	C8 8,PC 5b const	D8 -8,PC 5b const D9	E8 n,Y 9b const E9	F8 n,PC 9b const F9
08 8,X 5b const 09 9,X	18 -8,X 5b const 19 -7,X	28 8,-X pre- dec 29 7,-X	38 8,X- post- dec 39 7,X-	48 8,Y 5b const 49 9,Y	58 -8,Y 5b const 59 -7,Y	68 8,-Y pre- dec 69 7,-Y	78 8,Y- post- dec 79 7,Y-	88 8,SP 5b const 89 9,SP	98 -8,SP 5b const 99 -7,SP	A8 8,–SP pre- dec A9 7,–SP	B8 8,SP- post- dec B9 7,SP-	C8 8,PC 5b const C9 9,PC	D8 -8,PC 5b const D9 -7,PC	E8 n,Y 9b const E9 _n,Y	F8 n,PC 9b const F9 -n,PC
08 8,X 5b const 09 9,X 5b	18 -8,X 5b const 19 -7,X 5b	28 8,-X pre- dec 29 7,-X pre-	38 8,X- post- dec 39 7,X- post-	48 8,Y 5b const 49 9,Y 5b	58 -8,Y 5b const 59 -7,Y 5b	68 8,-Y pre- dec 69 7,-Y pre-	78 8,Y- post- dec 79 7,Y- post-	88 8,SP 5b const 89 9,SP 5b	98 -8,SP 5b const 99 -7,SP 5b	A8 8,–SP pre- dec A9 7,–SP pre-	B8 8,SP- post- dec B9 7,SP- post-	C8 8,PC 5b const C9 9,PC 5b	D8 -8,PC 5b const D9 -7,PC 5b	E8 n,Y 9b const E9	F8 n,PC 9b const F9
08 8,X 5b const 09 9,X 5b const	18 -8,X 5b const 19 -7,X 5b const	28 8,-X pre- dec 29 7,-X pre- dec	38 8,X- post- dec 39 7,X- post- dec	48 8,Y 5b const 49 9,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const	68 8,-Y pre- dec 69 7,-Y pre- dec	78 8,Y- post- dec 79 7,Y- post- dec	88 8,SP 5b const 89 9,SP	98 -8,SP 5b const 99 -7,SP 5b const	A8 8,_SP pre- dec A9 7,_SP pre- dec	B8 8,SP- post- dec B9 7,SP-	C8 8,PC 5b const C9 9,PC 5b const	D8 -8,PC 5b const D9 -7,PC	E8 n,Y 9b const E9 _n,Y	F8 n,PC 9b const F9 -n,PC
08 8,X 5b const 09 9,X 5b	18 -8,X 5b const 19 -7,X 5b	28 8,-X pre- dec 29 7,-X pre-	38 8,X- post- dec 39 7,X- post-	48 8,Y 5b const 49 9,Y 5b	58 -8,Y 5b const 59 -7,Y 5b	68 8,-Y pre- dec 69 7,-Y pre-	78 8,Y- post- dec 79 7,Y- post-	88 8,SP 5b const 89 9,SP 5b const	98 -8,SP 5b const 99 -7,SP 5b	A8 8,–SP pre- dec A9 7,–SP pre-	B8 8,SP- post- dec B9 7,SP- post- dec	C8 8,PC 5b const C9 9,PC 5b	D8 -8,PC 5b const D9 -7,PC 5b const	E8 n,Y 9b const E9 -n,Y 9b const EA	F8 n,PC 9b const F9 -n,PC 9b const
08 8,X 5b const 09 9,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A	28 8,-X pre- dec 29 7,-X pre- dec 2A	38 8,X- post- dec 39 7,X- post- dec 3A	48 8,Y 5b const 49 9,Y 5b const 4A	58 -8,Y 5b const 59 -7,Y 5b const 5A	68 8,-Y pre- dec 69 7,-Y pre- dec 6A	78 8,Y- post- dec 79 7,Y- post- dec 7A	88 8,SP 5b const 89 9,SP 5b const	98 -8,SP 5b const 99 -7,SP 5b const 9A	A8 8,—SP pre- dec A9 7,—SP pre- dec AA	B8 8,SP- post- dec B9 7,SP- post- dec BA	C8 8,PC 5b const C9 9,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA	E8 n,Y 9b const E9 -n,Y 9b const	F8 n,PC 9b const F9 -n,PC 9b const
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec	38 8,X- post- dec 39 7,X- post- dec 3A 6,X- post- dec	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const	A8 8,—SP pre- dec A9 7,—SP pre- dec AA 6,—SP pre- dec	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B	38 8,X-post- dec 39 7,X-post- dec 3A 6,X-post- dec 3B	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7B	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const	A8 8,—SP pre- dec A9 7,—SP pre- dec AA 6,—SP pre- dec AB	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec BB	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X	38 8,X-post- dec 39 7,X-post- dec 3A 6,X-post- dec 3B 5,X-	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5A -6,Y 5b	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B 5,-Y	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7B 5,Y-	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const 9B -5,SP	A8 8,—SP pre- dec A9 7,—SP pre- dec AA 6,—SP pre- dec AB 5,—SP	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec BB 5,SP-	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre-	38 8,X- post- dec 39 7,X- post- dec 3A 6,X- post- dec 3B 5,X- post-	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B 5,-Y pre-	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7B 5,Y- post-	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const 9B -5,SP 5b	A8 8,—SP pre- dec A9 7,—SP pre- dec AA 6,—SP pre- dec AB 5,—SP pre-	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec BB 5,SP- post-	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec	38 8,X- post- dec 39 7,X- post- dec 3A 6,X- post- dec 3B 5,X- post- dec	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B 5,-Y pre- dec	78 8,Y- post- dec 7,Y- post- dec 7A 6,Y- post- dec 7B 5,Y- post- dec	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const 9B -5,SP 5b const	A8 8, SP pre- dec A9 7, SP pre- dec AA 6, SP pre- dec AB 5, SP pre- dec	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec BB 5,SP- post- dec	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y]	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC]
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec	38 8,X- post- dec 39 7,X- post- dec 3A 6,X- post- dec 3B 5,X- post- dec	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B 5,-Y pre- dec	78 8,Y-post-dec 79 7,Y-post-dec 7A 6,Y-post-dec 7B 5,Y-post-dec 7C	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8B	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const 9B -5,SP 5b const 9B	A8 8, SP pre- dec A9 7, SP pre- dec AA 6, SP pre- dec AB 5, SP pre- dec	B8 8,SP-post- dec B9 7,SP-post- dec BA 6,SP-post- dec BB 5,SP-post- dec BB	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X	38 8,X- post- dec 39 7,X- post- dec 3A 6,X- post- dec 3B 5,X- post- dec 3C 4,X-	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B 5,-Y pre- dec 6C 4,-Y	78 8,Y-post-dec 79 7,Y-post-dec 7A 6,Y-post-dec 7B 5,Y-post-dec 7C 4,Y-	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP	98	A8 8,-SP pre- dec A9 7,-SP pre- dec AA 6,-SP pre- dec AB 5,-SP pre- dec AC 4,-SP	B8 8,SP-post- dec B9 7,SP-post- dec BA 6,SP-post- dec BB 5,SP-post- dec BC 4,SP-	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC 11,PC	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr EC A,Y	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC A,PC
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X 5b	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X	38 8,X-post-dec 39 7,X-post-dec 3A 6,X-post-dec 3B 5,X-post-dec 3C 4,X-post-	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y 5b	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y 5D 5D 5D 5D 5D 5D 5D 5D 5D 5D	68 8,_Y pre- dec 69 7,_Y pre- dec 6A 6,_Y pre- dec 6B 5,_Y pre- dec 6C 4,_Y pre-	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7B 5,Y- post- dec 7C 4,Y- post-	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP 5b	98	A8 8,-SP pre- dec dec A9 7,-SP pre- dec AA 6,-SP pre- dec AB 5,-SP pre- dec AC 4,-SP	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec BB 5,SP- post- dec BC 4,SP- post-	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC 20,000 to 10,000 to 10,	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC 5b	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const 0C 12,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X 5b const	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X pre- dec	38 8,X-post-dec 39 7,X-post-dec 3A 6,X-post-dec 3B 5,X-post-dec 3C 4,X-post-dec	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y 5b const	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B 5,-Y pre- dec 6C 4,-Y pre- dec	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7B 5,Y- post- dec 7C 4,Y- post- dec	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP 5b const	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const 9B -5,SP 5b const 9B -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP -7,SP 5b const 9C -7,SP -7,S	A8 8, SP pre- dec A9 7, SP pre- dec AA 6, SP pre- dec AB 5, SP pre- dec AC 4, SP pre- dec	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec dec BB 5,SP- post- dec BB 5,SP- post- dec	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC 12,PC 5b	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC 5b const	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr EC A,Y A offset	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC A,PC A offset
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const 0C 12,X 5b	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X 5b const	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X pre- dec	38 8,X-post-dec 39 7,X-post-dec 3A 6,X-post-dec 3B 5,X-post-dec 3C 4,X-post-dec 3D	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y 5b const 5C 5C 5C 5C 5C 5C 5C 5C 5C 5C	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B 5,-Y pre- dec dec dec dec	78 8,Y-post-dec 79 7,Y-post-dec 7A 6,Y-post-dec 7B 5,Y-post-dec 7C 4,Y-post-dec	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP 5b const 8C 12,SP 5b 8C 12,SP 5b 8D 13,SP 5b 5c 6c 14,SP 5c 6c 15,SP 5c 6c 6c 15,SP 5c 6c 6c 15,SP 5c 6c 6c 15,SP 5c 6c 6c 6c 6c 15,SP 5c 6c 6c 6c 6c 6c 6c 6c 6c 6c 6	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const 9B -5,SP 5b const 9C -4,SP 5b const 9C 5c 5c 5c 5c 5c 5c 5c 5c 5c 5c	A8 8,-SP pre- dec A9 7,-SP pre- dec AA 6,-SP pre- dec AB 5,-SP pre- dec AC 4,-SP pre- dec	B8 8,SP-post- dec B9 7,SP-post- dec BA 6,SP-post- dec BB 5,SP-post- dec BC 4,SP-post- dec	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC 12,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC 5b const DD	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr EC A,Y A offset	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC A,PC A offset FD
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const 0C 12,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X 5b const	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X pre- dec	38 8,X- post- dec 39 7,X- post- dec 3A 6,X- post- dec 3C 4,X- post- dec 3C 4,X- post- dec 3D 3,X-	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y 5b const	68 8,_Y pre- dec 69 7,_Y pre- dec 6A,_Y pre- dec 6B 5,_Y pre- dec 6C 4,_Y pre- dec 6D 3,_Y	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7B 5,Y- post- dec 7C 4,Y- post- dec 7D 3,Y-	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP 5b const	98 -8,SP 5b const 99 -7,SP 5b const 9A -6,SP 5b const 9B -5,SP 5b const 9B -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP 5b const 9C -7,SP -7,SP 5b const 9C -7,SP -7,S	A8 8,-SP pre- dec A9 7,-SP pre- dec AA 6,-SP pre- dec AB 5,-SP pre- dec 4,-SP pre- dec AC 4,-SP pre- dec	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec dec BB 5,SP- post- dec BB 5,SP- post- dec	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC 12,PC 5b	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC 5b const	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr EC A,Y A offset ED B,Y	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC A,PC A offset FD B,PC
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const 0C 12,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X 5b const 1C -3,X	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X pre- dec 2C 2C 2C 3,-X	38 8,X-post-dec 39 7,X-post-dec 3A 6,X-post-dec 3B 5,X-post-dec 3C 4,X-post-dec 3D	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y 5b const 4D 13,Y	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y 5b const 5C -3,Y 5D const	68 8,-Y pre- dec 69 7,-Y pre- dec 6A 6,-Y pre- dec 6B 5,-Y pre- dec dec dec dec	78 8,Y-post-dec 79 7,Y-post-dec 7A 6,Y-post-dec 7B 5,Y-post-dec 7C 4,Y-post-dec	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP 5b const 8C 12,SP 5b const	98	A8 8,-SP pre- dec A9 7,-SP pre- dec AA 6,-SP pre- dec AB 5,-SP pre- dec AC 4,-SP pre- dec	B8 8,8P- post- dec B9 7,SP- post- dec BA 6,SP- post- dec BC 4,SP- post- dec BC BC 3,SP- post- dec	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC 12,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC 5b const DD -3,PC	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr EC A,Y A offset	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC A,PC A offset FD B,PC B offset
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const 0C 12,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X 5b const 1D -3,X 5b const	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X pre- dec 2D 3,-X pre- dec	38 8,X-post-dec 39 7,X-post-dec 3A 6,X-post-dec 3B 5,X-post-dec 3C 4,X-post-dec 3D 3,X-post-dec 3E	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y 5b const 4C 12,Y 5b const	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y 5D const const const const const const const const const cons	68 8,_Y pre- dec 69 7,_Y pre- dec 6A 6,_Y pre- dec 6B 5,_Y pre- dec 6C 4,_Y pre- dec 6D 3,_Y pre- dec	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7B 5,Y- post- dec 7C 4,Y- post- dec 7D 3,Y- post-	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP 5b const 8B 13,SP 5b const 8C 14,SP 5b const 8C 15,SP 5b const 8C 10,SP 5b const 8C 11,SP 5b const 8C 12,SP 5b const 8C 13,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 15,SP 5b const 8C 15,SP 5b const 8C 15,SP 5b const 8C 8C 15,SP 5b const 8C 8C 8C 8C 8C 8C 8C 8C 8C 8C	98	A8 8, SP pre- dec A9 7, SP pre- dec AA 6, SP pre- dec AB 5, SP pre- dec AC 4, SP pre- dec AC 3, SP pre- dec AB 5, SP pre- dec AB pre- dec AB pre- dec AB pre- dec AB pre- dec AB pre- dec AB Dec AB pre- dec AB Dec AB Dec AB Dec Dec AB Dec Dec AB Dec Dec Dec Dec Dec Dec Dec Dec Dec Dec	B8 8,SP-post- dec B9 7,SP-post- dec BA 6,SP-post- dec BB 5,SP-post- dec BC 4,SP-post- dec BD 3,SP-post-	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC T2,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC 5b const DD -3,PC 5b const DD -3,PC 5b const DE	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr EC A,Y A offset ED B,Y	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC A,PC A offset FD B,PC
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0B 11,X 5b const 0C 12,X 5b const 0C 12,X 5b const 0C 13,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X 5b const 1D -3,X 5b const 1D -3,X 5b const 1E -4,X 1E -4,X 1E -	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X pre- dec 2C 2D 3,-X pre- dec 2D 4,-X pre- dec 2E 2-X 4,-X pre- dec 2E 2E 2E 2E 2E 2E 2E 2E 2E 2E 2E 2E 2E	38 8,X-post-dec 39 7,X-post-dec 3A 6,X-post-dec 3B 5,X-post-dec 3C 4,X-post-dec 3D 3,X-post-dec 3E 2,X-	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y 5b const 4D 13,Y 5b const 4D 4D 4D 4D 4D 4D 4D 4D 4D 4D 4D 4D 4D	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y 5b const 5C -3,Y 5D const 5D const	68 8,_Y pre- dec 69 7,_Y pre- dec 6A 6,_Y pre- dec 6B 5,_Y pre- dec 6C 4,_Y pre- dec 6D 3,_Y pre- dec 6E 2,_Y	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7B 5,Y- post- dec 7C 4,Y- post- dec 7D 3,Y- post- dec 7E 2,Y-	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP 5b const 8B 13,SP 5b const 8C 14,SP 5b const 8C 14,SP 5b const 8C 15,SP 5b const 8C 16,SP 5b const 8C 17,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 18,SP 5b const 8C 13,SP 5b const 8C 13,SP 5b const 8C 13,SP 5b const 8C 13,SP 5b const 8C 8C 13,SP 5b const 8C 8C 13,SP 5b const 8C 8C 13,SP 5b const 8C 8C 13,SP 5b const 8C 8C 8C 8C 8C 8C 8C 8C 8C 8C	98	A8 8,-SP pre- dec dec A9 7,-SP pre- dec AA 6,-SP pre- dec AB 5,-SP pre- dec AC 4,-SP pre- dec AD A- SP pre- dec AC A- SP pre- dec AB A- SP pre- dec AB A- SP pre- dec AB A- A- A- A- A- A- A- A- A- A- A- A- A-	B8 8,SP- post- dec B9 7,SP- post- dec BA 6,SP- post- dec BC 4,SP- post- dec BD 3,SP- post- dec BB BC 4,SP- post- dec BB BC BC BB BC BC BB BC BC BC BB BC BC	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC T2,PC 5b const CD 13,PC 5b const	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC 5b const DD -3,PC 5b const DD -3,PC 5b const DE -2,PC	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr EC A,Y A offset ED B,Y B offset	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC A,PC A offset FD B,PC B offset
08 8,X 5b const 09 9,X 5b const 0A 10,X 5b const 0C 12,X 5b const 0C 12,X 5b const 0D 13,X 5b const	18 -8,X 5b const 19 -7,X 5b const 1A -6,X 5b const 1B -5,X 5b const 1C -4,X 5b const 1D -3,X 5b -3,X 5b -3,X 5b -3,X	28 8,-X pre- dec 29 7,-X pre- dec 2A 6,-X pre- dec 2B 5,-X pre- dec 2C 4,-X pre- dec 2C 2,-X pre- dec 2D 3,-X pre- dec 3,-X pre- dec 2D 3,-X pre- de 2D 3,-X pre- de 2D 3,-X pre- de 2D 3,-X pre- a 2D 3,-X pre- de 2D 3,-X pre- a 2D 3,-X pre- a 2D 3,-X pre- a 2D 3,-X pre- a 2D 3,-X pre- a 2D 3,-X pre- a 2D 2D 3,-X pre- a 2D 2 2D 2 2D 3,-X pre- a 2D 2D 3,-X pre- a 2D 2D 3,-X pre- a 2D 2D 3,-X pre- a 2D 2 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 2	38 8,X-post-dec 39 7,X-post-dec 3A 6,X-post-dec 3B 5,X-post-dec 3C 4,X-post-dec 3D 3,X-post-dec 3E 2,X-post-dec	48 8,Y 5b const 49 9,Y 5b const 4A 10,Y 5b const 4B 11,Y 5b const 4C 12,Y 5b const 4D 13,Y 5b const 4C 12,Y 5b const 4C 12,Y 5b const 4C 12,Y 5b const 4C 12,Y 5b const 4C 12,Y 5b const 4C 13,Y 5b const 4C 14,Y 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5b const 4C 15,V 5c 15,V 5c const 5c 15,V 15,V 15,V 15,V 15,V 15,V 15,V 15,V	58 -8,Y 5b const 59 -7,Y 5b const 5A -6,Y 5b const 5B -5,Y 5b const 5C -4,Y 5b const 5C -3,Y 5b const 5const	68 8,_Y pre- dec 69 7,_Y pre- dec 6A 6,_Y pre- dec 6B 5,_Y pre- dec 6C 4,_Y pre- dec 6C 2,_Y pre- dec 6C 4,_Y pre- dec 6C 4,_Y pre- dec 6C 4,_Y pre- dec 6C 4,_Y pre- dec 6C 4,_Y pre- dec 6C 6C 6C 6C 6C 6C 6C 6C 6C 6C 6C 6C 6C	78 8,Y- post- dec 79 7,Y- post- dec 7A 6,Y- post- dec 7C 4,Y- post- dec 7D 3,Y- post- dec 7E 2,Y- post-	88 8,SP 5b const 89 9,SP 5b const 8A 10,SP 5b const 8B 11,SP 5b const 8C 12,SP 5b const 8B 13,SP 5b const 8C 14,SP 5b const 8B 14,SP 5b const 8B 14,SP 5b const 8B 15,SP 5b const 8C 12,SP 5b const 8B 13,SP 5b const 8B 14,SP 5b const 8B 15,SP 5b const 8B 10,SP 5b const 8B 11,SP 5b const 8B 12,SP 5b const 8B 13,SP 5b const 8B 13,SP 5b const 8B 13,SP 5b const 8B 13,SP 5b const 8B 13,SP 5b const 8B 13,SP 5b const 8B 13,SP 5b const 8B 13,SP 5b const 8B 13,SP 5b const 8B 14,SP 5b const 8B 15,SP 5b const 8B 15,SP 5b const 8B 14,SP 5b const 8B 5b const 8B 5b const 8B 5b const 8B 5b const 8B 5b const 8B 5b const 8B 5b const 8B 5b const 8B 5b const 8B 5b const 8B 5b const 8B const const 8B co	98	A8 8, SP pre- dec A9 7, SP pre- dec AA 6, SP pre- dec AC 4, SP pre- dec AC AC AC AC AC AC AC AC AC AC AC AC AC	B8 8,SP-post- dec B9 7,SP-post- dec BA 6,SP-post- dec BB 5,SP-post- dec BC 4,SP-post- dec BD 3,SP-post- dec BB BB BB BB BB BB BB BB BB BB BB BB BB	C8 8,PC 5b const C9 9,PC 5b const CA 10,PC 5b const CB 11,PC 5b const CC 12,PC 5b const CD 13,PC 5b const CD 14,PC 5b	D8 -8,PC 5b const D9 -7,PC 5b const DA -6,PC 5b const DB -5,PC 5b const DC -4,PC 5b const DD -3,PC 5b const DE -2,PC 5b	E8 n,Y 9b const E9 -n,Y 9b const EA n,Y 16b const EB [n,Y] 16b indr EC A,Y A offset ED B,Y B offset EE D,Y	F8 n,PC 9b const F9 -n,PC 9b const FA n,PC 16b const FB [n,PC] 16b indr FC A,PC A offset FD B,PC B offset FE D,PC
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#### PRACTICA 7: OBTENER EL "CODIGO MAQUINA" DE LOS DIRECCIONAMIENTOS INDIZADOS COMPLEJOS.

NOTA: Pueden seguir los ejemplos de Norma o Gastelu, cualquiera es lo mismo siempre y cuando tengan el contenido básico solicitado.

## **Entregables:**

- 1.- programa código fuente y ejecutable (exe o jar)
- 2.-Reporte

Describir los algoritmos y/o fórmula utilizada para validar cada uno de los operandos posibles por cada modo de direccionamiento.

Anotar número de reporte, nombre, código, fecha de entrega, número de práctica tanto en el reporte como en código fuente.

3.- entregar por correo electrónico en un archivo comprimido (ZIP, RAR), con su nombre, código y número de práctica.

**NOTA:** El programa debe seguir validando las reglas previas de las prácticas anteriores, debes validar todos los errores (si no haces esto se te restaran puntos).

## **Bibliografía**

- 1. Para mas información sobre este tema consulte la bibliografía recomendada:
  - a. Analisis, diseño y Programación de Sistemas Norma Ramírez Hernández
  - b. System programming John Donovan
  - c. Microprocesadores avanzados de Intel Barry Brey
  - d. Reference Manual HC12