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Organização de Computadores I

Atividade 03

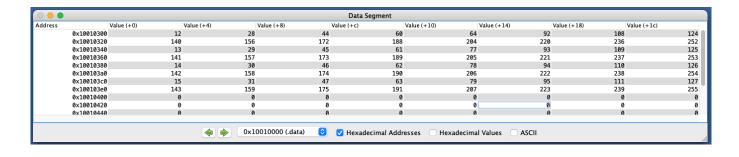
Exercício 1:

Algoritmo dado:

```
for (row = 0; row < 16; row++)
for (col = 0; col < 16; col++)
  data[row][col] = value++;</pre>
```

Matriz armazenada na memória

0 0 0				Data Seg					
ddress	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)	
	0×10010000	0	16	32	48	64	80	96	112
	0×10010020	128	144	160	176	192	208	224	240
	0×10010040	1	17	33	49	65	81	97	113
	0×10010060	129	145	161	177	193	209	225	241
	0×10010080	2	18	34	50	66	82	98	114
	0×100100a0	130	146	162	178	194	210	226	242
	0×100100c0	3	19	35	51	67	83	99	115
	0×100100e0	131	147	163	179	195	211	227	243
	0×10010100	4	20	36	52	68	84	100	116
	0×10010120	132	148	164	180	196	212	228	244
	0×10010140	5	21	37	53	69	85	101	117
		(4)	0x10010000 (.data) 🖸 🗸 Hexadeci	imal Addresses Hex	adecimal Values A	SCII		



Exercício 2:

Algoritmo dado:

```
for (col = 0; col < 16; col++)
for (row = 0; row < 16; row++)
   data[row][col] = value++;</pre>
```

Matriz armazenada na memória

0x10010000 0 1 2 3 4 5 6 0x10010020 8 9 10 11 12 13 14 0x10010040 16 17 18 19 20 21 22 0x10010060 24 25 26 27 28 29 30 0x10010080 32 33 34 35 36 37 38 0x10010080 40 41 42 43 44 45 46 0x1001000c0 48 49 50 51 52 53 54 0x1001000c0 56 57 58 59 60 61 62 0x1001000 64 65 66 67 68 69 70 0x10010120 72 73 74 75 76 77 78 0x10010100 80 81 82 83 84 85 86 <	Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)	
0x10010040 16 17 18 19 20 21 22 0x10010060 24 25 26 27 28 29 30 0x10010080 32 33 34 35 36 37 38 0x10010080 40 41 42 43 44 45 46 0x10010000 48 49 50 51 52 53 54 0x10010000 56 57 58 59 60 61 62 0x10010100 64 65 66 67 68 69 70 0x10010120 72 73 74 75 76 77 78	0x	10010000	0	1	2	3	4	5	6	7
0x10010060 24 25 26 27 28 29 30 0x10010080 32 33 34 35 36 37 38 0x10010000 40 41 42 43 44 45 46 0x10010000 48 49 50 51 52 53 54 0x10010000 56 57 58 59 60 61 62 0x10010100 64 65 66 67 68 69 70 0x10010100 72 73 74 75 76 77 78	0x	10010020	8	9	10	11	12	13	14	15
0x10010080 32 33 34 35 36 37 38 0x100100a0 40 41 42 43 44 45 46 0x100100c0 48 49 50 51 52 53 54 0x100100c0 56 57 58 59 60 61 62 0x10010100 64 65 66 67 68 69 70 0x10010120 72 73 74 75 76 77 78	0x	10010040	16	17	18	19	20	21	22	23
0x100100a0 40 41 42 43 44 45 46 0x100100c0 48 49 50 51 52 53 54 0x100100c0 56 57 58 59 60 61 62 0x10010100 64 65 66 67 68 69 70 0x10010120 72 73 74 75 76 77 78	0x	10010060	24	25	26	27	28	29	30	31
0x100100c0 48 49 50 51 52 53 54 0x100100e0 56 57 58 59 60 61 62 0x10010100 64 65 66 67 68 69 70 0x10010120 72 73 74 75 76 77 78	0x	10010080	32	33	34	35	36	37	38	39
0x100100e0 56 57 58 59 60 61 62 0x10010100 64 65 66 67 68 69 70 0x10010120 72 73 74 75 76 77 78	0x	100100a0	40	41	42	43	44	45	46	47
0x10010100 64 65 66 67 68 69 70 0x10010120 72 73 74 75 76 77 78	0x	100100c0	48	49	50	51	52	53	54	55
0x10010120 72 73 74 75 76 77 78	0x	100100e0	56	57	58	59	60	61	62	63
	0x	10010100	64	65	66	67	68	69	70	71
0×10010140 80 81 82 83 84 85 86	0x	10010120	72	73	74	75	76	77	78	79
	0×	10010140	80	81	82	83	84	85	86	87

ddress	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)	
	0×10010300	192	193	194	195	196	197	198	199
	0×10010320	200	201	202	203	204	205	206	207
	0×10010340	208	209	210	211	212	213	214	215
	0x10010360	216	217	218	219	220	221	222	223
	0x10010380	224	225	226	227	228	229	230	231
	0x100103a0	232	233	234	235	236	237	238	239
	0x100103c0	240	241	242	243	244	245	246	247
	0x100103e0	248	249	250	251	252	253	254	255
	0×10010400	0	0	0	0	Ø	Ø	0	0
	0x10010420	0	0	0	0	Ø	Ø	0	0
	0x10010440	0	0	0	0	0	0	0	0
			0x10010000 (.data) 🖸 🗸 Hexadeci	mal Addresses Hex	adecimal Values A	SCII		