# LAB 3

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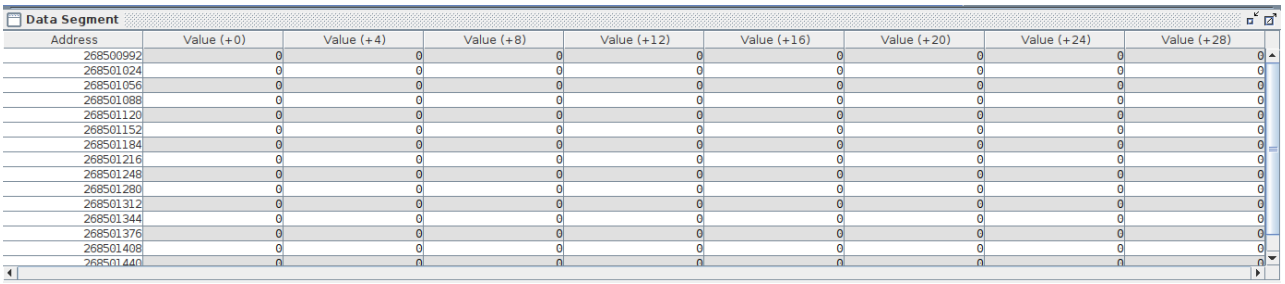
## *Exercício 1*

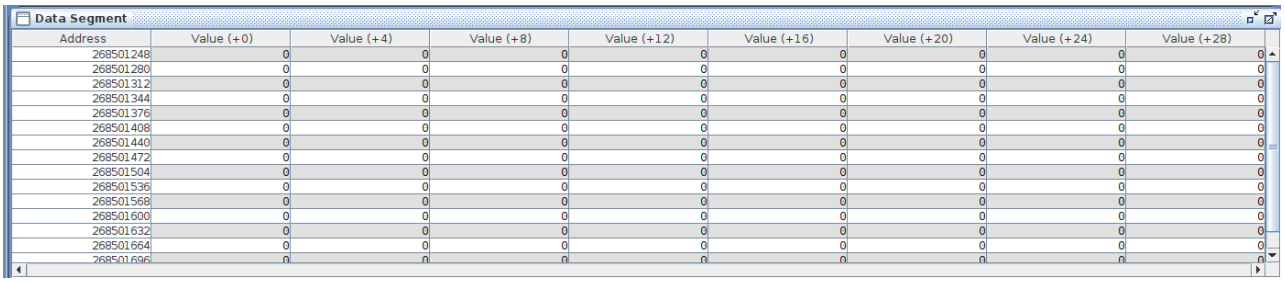
O resultado esperado é que pontos contíguos da memória estejam valores crescentes (onde o ponto[i] tem valor = ponto[i-1] + 1

Memória antes da execução:



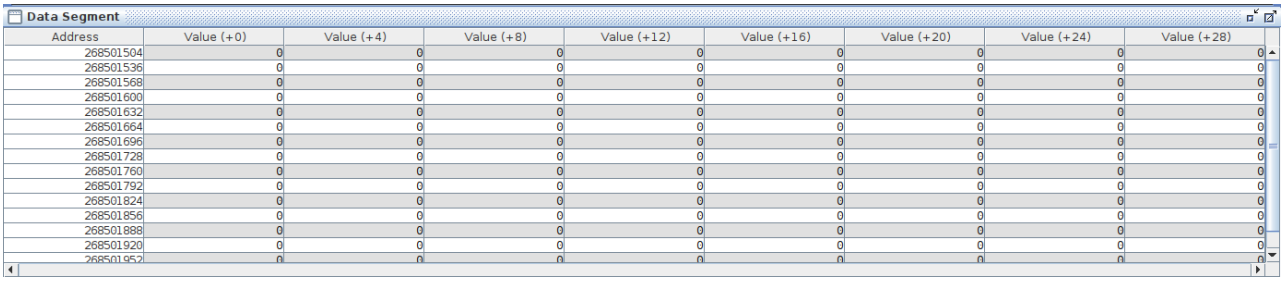
Data Segment

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268500992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501056 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501088 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501184 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501216 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501248 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501344 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501376 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501408 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



Data Segment

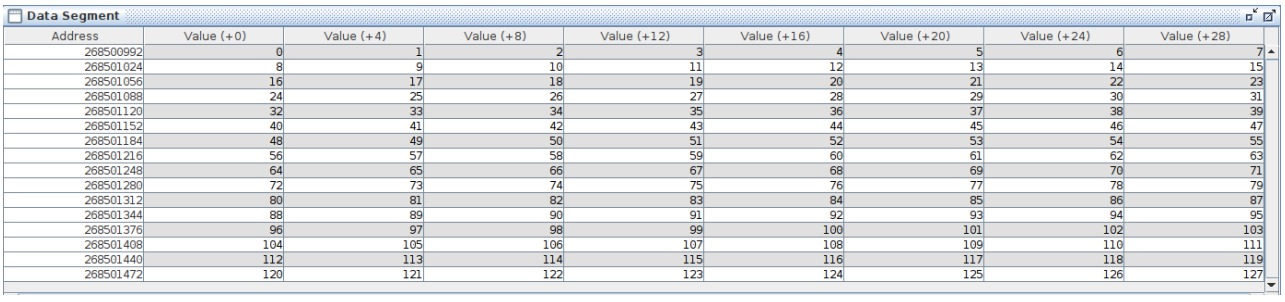
| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268501248 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501344 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501376 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501408 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501472 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501504 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501568 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501632 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501664 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



Data Segment

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268501504 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501568 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501632 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501664 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501696 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501760 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501792 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501824 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501856 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501888 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501920 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Memória após a execução:



Data Segment

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268500992 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 268501024 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 268501056 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 268501088 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 268501120 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| 268501152 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| 268501184 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
| 268501216 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| 268501248 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
| 268501280 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
| 268501312 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 |
| 268501344 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
| 268501376 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 |
| 268501408 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 |
| 268501440 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 |
| 268501472 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 |

Data Segment

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268501248 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
| 268501280 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
| 268501312 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 |
| 268501344 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 |
| 268501376 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 |
| 268501408 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 |
| 268501440 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 |
| 268501472 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 |
| 268501504 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 |
| 268501536 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 |
| 268501568 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 |
| 268501600 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 |
| 268501632 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 |
| 268501664 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 |
| 268501696 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 |
| 268501728 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 |

Data Segment

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268501504 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 |
| 268501536 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 |
| 268501568 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 |
| 268501600 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 |
| 268501632 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 |
| 268501664 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 |
| 268501696 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 |
| 268501728 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 |
| 268501760 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 |
| 268501792 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 |
| 268501824 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 |
| 268501856 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 |
| 268501888 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 |
| 268501920 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 |
| 268501952 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 |
| 268501984 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 |

# *Exercício 2*

O resultado esperado é que cada slot de memória tenha um valor incrementado superior em 1 ao slot 16 posições (1 linha) anterior

Memória antes da execução:

Data Segment

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268500992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501024 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501056 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501088 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501184 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501216 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501248 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501344 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501376 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501408 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Data Segment

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268501248 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501344 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501376 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501408 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501472 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501504 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501568 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501632 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501664 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501696 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Data Segment

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268501504 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501536 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501568 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501632 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501664 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501696 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501760 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501792 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501824 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501856 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501888 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 268501920 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Memória após a execução:

**Data Segment**

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268500992 | 0 | 16 | 32 | 48 | 64 | 80 | 96 | 112 |
| 268501024 | 128 | 144 | 160 | 176 | 192 | 208 | 224 | 240 |
| 268501056 | 1 | 17 | 33 | 49 | 65 | 81 | 97 | 113 |
| 268501088 | 129 | 145 | 161 | 177 | 193 | 209 | 225 | 241 |
| 268501120 | 2 | 18 | 34 | 50 | 66 | 82 | 98 | 114 |
| 268501152 | 130 | 146 | 162 | 178 | 194 | 210 | 226 | 242 |
| 268501184 | 3 | 19 | 35 | 51 | 67 | 83 | 99 | 115 |
| 268501216 | 131 | 147 | 163 | 179 | 195 | 211 | 227 | 243 |
| 268501248 | 4 | 20 | 36 | 52 | 68 | 84 | 100 | 116 |
| 268501280 | 132 | 148 | 164 | 180 | 196 | 212 | 228 | 244 |
| 268501312 | 5 | 21 | 37 | 53 | 69 | 85 | 101 | 117 |
| 268501344 | 133 | 149 | 165 | 181 | 197 | 213 | 229 | 245 |
| 268501376 | 6 | 22 | 38 | 54 | 70 | 86 | 102 | 118 |
| 268501408 | 134 | 150 | 166 | 182 | 198 | 214 | 230 | 246 |
| 268501440 | 7 | 23 | 39 | 55 | 71 | 87 | 103 | 119 |
| 268501472 | 135 | 151 | 167 | 183 | 199 | 215 | 231 | 247 |

**Data Segment**

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268501248 | 4 | 20 | 36 | 52 | 68 | 84 | 100 | 116 |
| 268501280 | 132 | 148 | 164 | 180 | 196 | 212 | 228 | 244 |
| 268501312 | 5 | 21 | 37 | 53 | 69 | 85 | 101 | 117 |
| 268501344 | 133 | 149 | 165 | 181 | 197 | 213 | 229 | 245 |
| 268501376 | 6 | 22 | 38 | 54 | 70 | 86 | 102 | 118 |
| 268501408 | 134 | 150 | 166 | 182 | 198 | 214 | 230 | 246 |
| 268501440 | 7 | 23 | 39 | 55 | 71 | 87 | 103 | 119 |
| 268501472 | 135 | 151 | 167 | 183 | 199 | 215 | 231 | 247 |
| 268501504 | 8 | 24 | 40 | 56 | 72 | 88 | 104 | 120 |
| 268501536 | 136 | 152 | 168 | 184 | 200 | 216 | 232 | 248 |
| 268501568 | 9 | 25 | 41 | 57 | 73 | 89 | 105 | 121 |
| 268501600 | 137 | 153 | 169 | 185 | 201 | 217 | 233 | 249 |
| 268501632 | 10 | 26 | 42 | 58 | 74 | 90 | 106 | 122 |
| 268501664 | 138 | 154 | 170 | 186 | 202 | 218 | 234 | 250 |
| 268501696 | 11 | 27 | 43 | 59 | 75 | 91 | 107 | 123 |
| 268501728 | 139 | 155 | 171 | 187 | 203 | 219 | 235 | 251 |

**Data Segment**

| Address | Value (+0) | Value (+4) | Value (+8) | Value (+12) | Value (+16) | Value (+20) | Value (+24) | Value (+28) |
|---|---|---|---|---|---|---|---|---|
| 268501504 | 8 | 24 | 40 | 56 | 72 | 88 | 104 | 120 |
| 268501536 | 136 | 152 | 168 | 184 | 200 | 216 | 232 | 248 |
| 268501568 | 9 | 25 | 41 | 57 | 73 | 89 | 105 | 121 |
| 268501600 | 137 | 153 | 169 | 185 | 201 | 217 | 233 | 249 |
| 268501632 | 10 | 26 | 42 | 58 | 74 | 90 | 106 | 122 |
| 268501664 | 138 | 154 | 170 | 186 | 202 | 218 | 234 | 250 |
| 268501696 | 11 | 27 | 43 | 59 | 75 | 91 | 107 | 123 |
| 268501728 | 139 | 155 | 171 | 187 | 203 | 219 | 235 | 251 |
| 268501760 | 12 | 28 | 44 | 60 | 76 | 92 | 108 | 124 |
| 268501792 | 140 | 156 | 172 | 188 | 204 | 220 | 236 | 252 |
| 268501824 | 13 | 29 | 45 | 61 | 77 | 93 | 109 | 125 |
| 268501856 | 141 | 157 | 173 | 189 | 205 | 221 | 237 | 253 |
| 268501888 | 14 | 30 | 46 | 62 | 78 | 94 | 110 | 126 |
| 268501920 | 142 | 158 | 174 | 190 | 206 | 222 | 238 | 254 |
| 268501952 | 15 | 31 | 47 | 63 | 79 | 95 | 111 | 127 |
| 268501984 | 143 | 159 | 175 | 191 | 207 | 223 | 239 | 255 |