Homework 7

Write a plain old sequential C program that takes as input the number of processors (numP), an array size and prints the elements of the array of the given size that would appear on each processor *p, 0* $\leq p <$ *numP*. For block and cyclic for processor p your output should look like:

p: [l:u:s]

where l is the lowest element (array index) on the processor, u is the highest element (array index) on the processor and s is the distance between elements. Thus for processor p=0 and p=2 with a cyclic distribution on numP=7 processors of an array of size 50 the output for p would be

0: [0:49:7]
2: [2:44:7]

You do not need to do block-cyclic.

What to turn in: You should turn in a zip file called <your last name>.zip. When unzipped it should create a directory called <your last name> containing your code and your output. Your output can either be a screen shot, what you capture from using the Unix/Linux *script* command or the program output directed into another file.

0 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
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