

p = 3

4	5	8	10	1	6	0	3	44	9	20	33	13	45	15
---	---	---	----	---	---	---	---	----	---	----	----	----	----	----

pegue o vetor e divida em p partes

processador 1

4	5	8	10	1
---	---	---	----	---

1	4	5	8	10
---	---	---	---	----

1	5	10
---	---	----

processador 2

6	0	3	44	9
---	---	---	----	---

0	3	6	9	44
---	---	---	---	----

0	6	44
---	---	----

processador 3

20	33	13	45	15
----	----	----	----	----

13	15	20	33	45
----	----	----	----	----

13	20	45
----	----	----

ordene os subvetores

pegue p pivos de cada

1	5	10	0	6	44	13	20	45
---	---	----	---	---	----	----	----	----

0	1	5	6	10	13	20	44	45
---	---	---	---	----	----	----	----	----

0	10	45
---	----	----

concatene os pivos e depois ordene

pegue p pivos

n<0? n<10? n<45?

verifique quais valores dos subvetores são menores e crie um subvetor *

n<0

--

1	4	5	8	10
---	---	---	---	----

n<10

1	4	5	8	0	3	6	9
---	---	---	---	---	---	---	---

0	1	3	4	5	6	8	9
---	---	---	---	---	---	---	---

n<45

10	44	13	15	20	33
----	----	----	----	----	----

10	13	15	20	33	44
----	----	----	----	----	----

resto

13	15	20	33	45
----	----	----	----	----

45

45

ordene os subvetores

junte os subvetores

0	1	3	4	5	6	8	9	10	13	15	20	33	44	45
---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

*Obs: nesse exemplo, no caso do 0, ele é o menor valor, portanto não terá um subvetor proveniente dele