

# Task01

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Legajo: 1135248

Inicializamos la cola "LU":

0	0	0	0	0	0	0
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Introducimos el legajo de manera invertida:

8	0	0	0	0	0	0
---	---	---	---	---	---	---

.....

3	4	8	0	0	0	0
---	---	---	---	---	---	---

.....

1	1	3	5	3	4	8
---	---	---	---	---	---	---

Pasamos los elementos de la cola con el legajo a una cola auxiliar para conocer el largo de la cola, una vez obtenido el largo de la cola se divide por 2 (**largo/2**). El resultado se guarda en la variable entera "**int lugar=largo/2**". Esto para que sea una división entera.

AUX:

3	4	8	0	0	0	
---	---	---	---	---	---	--

LU:

1	1	3	5	0	0	0
---	---	---	---	---	---	---

.....

AUX:

1	1	3	5	3	4	8
---	---	---	---	---	---	---

LU:

0	0	0	0	0	0	0
---	---	---	---	---	---	---

Por último pasamos nuevamente los elementos de la cola "AUX" a la cola "LU", esta vez agregando el numero 15 en la posición "**lugar**". Iremos contando el paso de una cola a otra con la variable local "**count**" y cuando "**count = lugar**" añadimos el número "**15**".

AUX:

1	1	3	5	0	0	0
---	---	---	---	---	---	---

LU:

3	4	8	0	0	0	0	0
---	---	---	---	---	---	---	---

count = lugar;

AUX:

1	1	3	5	0	0	0
---	---	---	---	---	---	---

LU:

15	3	4	8	0	0	0	0
----	---	---	---	---	---	---	---

.....

AUX:

0	0	0	0	0	0	0
---	---	---	---	---	---	---

LU:

1	1	3	5	15	3	4	8
---	---	---	---	----	---	---	---