For [2, 7, 13, 19]

Ugly numbers = 1, 2, 4, 7, 8...

	ugly numbers	k sorted list	ugly[i] * [2,7,13,19]
1st ugly →	1	2 7 13 19	= 1 * [2,7,13,19]
2nd →	2	4 14 26 38	= 2 * [2,7,13,19]
3rd →	4	8 28 52 76	= 4 * [2,7,13,19]
4th →	7	14 49 91 133	= 7 * [2,7,13,19]
5th →	8	16 56	= 8 * [2,7,13,19]
	.	. . . .	
	.	. . . .	
	.	. . . .	

These are vertical lists

i = 0

ugly[i] = 1

Start with [2, 7, 13, 19]

- pop minimum out = 2, put 2 in ugly[i]
- replace with its next in list = 4
- repeat until you find ugly[n]
  - See code for how to find next