

i	j	i + j	0	1	2	3	4	5	6	7	8	9	10
---	---	-------	---	---	---	---	---	---	---	---	---	---	----

		text	→	A	B	A	C	A	D	A	B	R	A	C
--	--	------	---	---	---	---	---	---	---	---	---	---	---	---

0	2	2		A	B	R	A	←	pat
---	---	---	--	---	---	---	---	---	-----

1	0	1		A	B	R	A		
---	---	---	--	---	---	---	---	--	--

entries in red are mismatches

2	1	3		A	B	R	A		
---	---	---	--	---	---	---	---	--	--

3	0	3				A	B	R	A
---	---	---	--	--	--	---	---	---	---

4	1	5					A	B	R	A
---	---	---	--	--	--	--	---	---	---	---

entries in gray are for reference only

5	0	5						A	B	R	A
---	---	---	--	--	--	--	--	---	---	---	---

entries in black match the text

6	4	10							A	B	R	A
---	---	----	--	--	--	--	--	--	---	---	---	---

return i when j is M

match