

matrix			sol	rhs	action
2	2	13	1	17	
4	5	32	1	41	
-2	-3	-16	1	-21	

matrix			sol	rhs	action
2	2	13	1	17	take this row
4	5	32	1	41	
-2	-3	-16	1	-21	

matrix			sol	rhs	action
2	2	13	1	17	take this row
↓	↓	↓			
4	5	32	1	41	minus $\times 2$
-2	-3	-16	1	-21	

matrix			sol	rhs	action
2	2	13	1	17	take this row
0	1	6	1	7	
-2	-3	-16	1	-21	

matrix			sol	rhs	action
2	2	13	1	17	take this row
⇓	⇓	⇓			
0	1	6	1	7	
-2	-3	-16	1	-21	plus $\times 1$

matrix			sol	rhs	action
2	2	13	1	17	take this row
0	1	6	1	7	
0	-1	-3	1	-4	

matrix			sol	rhs	action
2	2	13	1	17	first column done
0	1	6	1	7	
0	-1	-3	1	-4	

matrix			sol	rhs	action
2	2	13	1	17	take this row
0	1	6	1	7	
0	-1	-3	1	-4	

matrix			sol	rhs	action
2	2	13	1	17	minus $\times 2$
\uparrow	\uparrow	\uparrow			
0	1	6	1	7	take this row
0	-1	-3	1	-4	

matrix			sol	rhs	action
2	0	1	1	3	take this row
0	1	6	1	7	
0	-1	-3	1	-4	

matrix			sol	rhs	action
2	0	1	1	3	take this row plus $\times 1$
0	1	6	1	7	
↓	↓	↓			
0	-1	-3	1	-4	

matrix			sol	rhs	action
2	0	1	1	3	take this row
0	1	6	1	7	
0	0	3	1	3	

matrix			sol	rhs	action
2	0	1	1	3	second column done
0	1	6	1	7	
0	0	3	1	3	

matrix			sol	rhs	action
2	0	1	1	3	take this row
0	1	6	1	7	
0	0	3	1	3	

matrix			sol	rhs	action
2	0	1	1	3	minus $\times 1/3$
0	1	6	1	7	
$\uparrow\uparrow$	$\uparrow\uparrow$	$\uparrow\uparrow$			
0	0	3	1	3	take this row

matrix			sol	rhs	action
2	0	0	1	2	take this row
0	1	6	1	7	
0	0	3	1	3	

matrix			sol	rhs	action
2	0	0	1	2	
0	1	6	1	7	minus $\times 2$
\uparrow	\uparrow	\uparrow			
0	0	3	1	3	take this row

matrix			sol	rhs	action
2	0	0	1	2	take this row
0	1	0	1	1	
0	0	3	1	3	

matrix			sol	rhs	action
2	0	0	1	2	
0	1	0	1	1	
0	0	3	1	3	
					third column done

matrix			sol	rhs	action
2	0	0	1	2	
0	1	0	1	1	
0	0	3	1	3	