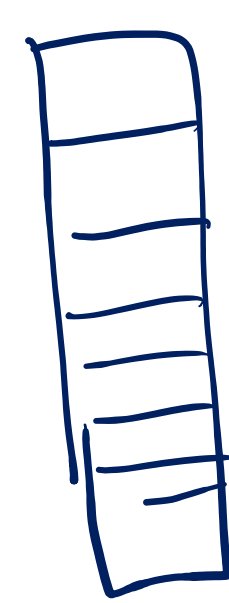


int [][] arr = new int [N][M]

1 + n



arr[i][j] > item
stop (arr[i][j])

	0	1	2	3
0				
1				
2				

i \ j	0	1	2	3
0	0-0	0-1	0-2	0-3
1	1-0	1-1	1-2	1-3
2	2-0	2-1	2-2	2-3

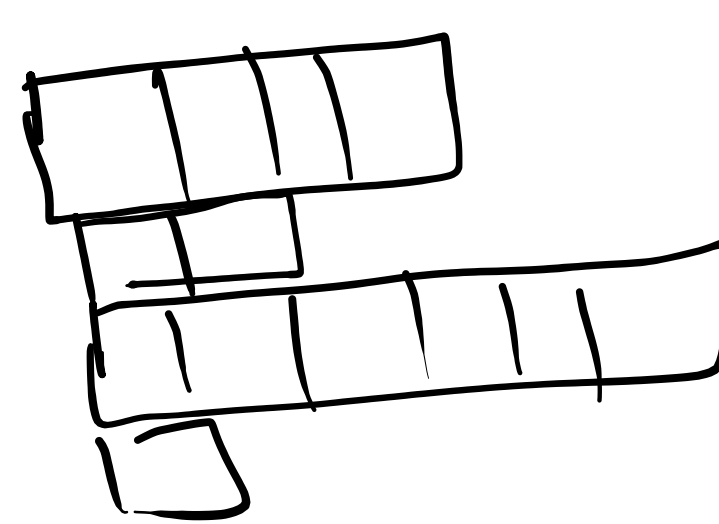
for(i=0; i<arr.length; i++)
for(j=0; j<arr[i].length; j++)

```
public static void main(String[] args) {  
    // TODO Auto-generated method stub  
    Scanner sc = new Scanner(System.in);  
    int n = sc.nextInt();  
    int m = sc.nextInt();  
    int [][] arr = new int [n][m];  
    for (int i = 0; i < arr.length; i++) {  
        for (int j = 0; j < arr[i].length; j++) {  
            arr[i][j] = sc.nextInt();  
        }  
    }  
    Display(arr);  
}  
  
public static void Display(int [][] arr) {  
    // TODO Auto-generated method stub  
    for (int i = 0; i < arr.length; i++) {  
        for (int j = 0; j < arr[i].length; j++) {  
            System.out.print(arr[i][j] + " ");  
        }  
        System.out.println();  
    }  
}
```

3	4
1	2
5	6
9	10
1	2
5	6
9	10

1	2	3	4
5	6	7	8
9	10	11	12

arr[m]
arr[n]
arr[k]



for (col=0; col<arr[i].length; col++)

1	4	7	11	15
2	5	8	12	19
3	6	9	16	22
10	13	14	17	24
18	21	23	26	30

1	2	3	10	18	21	13	6	5	4	7	8	9	14
2	5	6	17	16	12	11	15	19	22	24	20	23	25
0-0	0-1	0-2	0-3	0-4	0-5	0-6	0-7	0-8	0-9	0-10	0-11	0-12	0-13
1-0	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13
2-0	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-10	2-11	2-12	2-13
3-0	3-1	3-2	3-3	3-4	3-5	3-6	3-7	3-8	3-9	3-10	3-11	3-12	3-13
4-0	4-1	4-2	4-3	4-4	4-5	4-6	4-7	4-8	4-9	4-10	4-11	4-12	4-13

1	5	9	13
2	6	10	14
3	7	11	15
4	8	12	16

for (i=0; i<arr.length; i++)
for (j=i; j<arr[i].length; j++)

1	5	9	11
2	6	10	14
3	7	11	15
4	8	12	16

0-0 → 1-0 ✓
0-1 → 2-0 ✓
0-2 → 3-0 ✓
1-0 → 2-1 ✓
1-1 → 3-1 ✓
1-2 → 2-2 ✓
2-0 → 3-2 ✓
2-1 → 4-1 ✓
2-2 → 3-3 ✓
3-0 → 4-2 ✓
3-1 → 5-1 ✓
3-2 → 4-3 ✓
3-3 → 5-2 ✓
3-4 → 6-1 ✓
3-5 → 5-3 ✓
3-6 → 6-2 ✓
3-7 → 7-1 ✓
3-8 → 6-3 ✓
3-9 → 7-2 ✓
3-10 → 8-1 ✓
3-11 → 7-3 ✓
3-12 → 8-2 ✓
3-13 → 9-1 ✓
3-14 → 8-3 ✓
3-15 → 9-2 ✓
3-16 → 10-1 ✓
3-17 → 9-3 ✓
3-18 → 10-2 ✓
3-19 → 11-1 ✓
3-20 → 10-3 ✓
3-21 → 11-2 ✓
3-22 → 12-1 ✓
3-23 → 11-3 ✓
3-24 → 12-2 ✓
3-25 → 13-1 ✓
3-26 → 12-3 ✓
3-27 → 13-2 ✓
3-28 → 14-1 ✓
3-29 → 13-3 ✓
3-30 → 14-2 ✓
3-31 → 15-1 ✓
3-32 → 14-3 ✓
3-33 → 15-2 ✓
3-34 → 16-1 ✓
3-35 → 15-3 ✓
3-36 → 16-2 ✓
3-37 → 17-1 ✓
3-38 → 16-3 ✓
3-39 → 17-2 ✓
3-40 → 18-1 ✓
3-41 → 17-3 ✓
3-42 → 18-2 ✓
3-43 → 19-1 ✓
3-44 → 18-3 ✓
3-45 → 19-2 ✓
3-46 → 20-1 ✓
3-47 → 19-3 ✓
3-48 → 20-2 ✓
3-49 → 21-1 ✓
3-50 → 20-3 ✓
3-51 → 21-2 ✓
3-52 → 22-1 ✓
3-53 → 21-3 ✓
3-54 → 22-2 ✓
3-55 → 23-1 ✓
3-56 → 22-3 ✓
3-57 → 23-2 ✓
3-58 → 24-1 ✓
3-59 → 23-3 ✓
3-60 → 24-2 ✓
3-61 → 25-1 ✓
3-62 → 24-3 ✓
3-63 → 25-2 ✓
3-64 → 26-1 ✓
3-65 → 25-3 ✓
3-66 → 26-2 ✓
3-67 → 27-1 ✓
3-68 → 26-3 ✓
3-69 → 27-2 ✓
3-70 → 28-1 ✓
3-71 → 27-3 ✓
3-72 → 28-2 ✓
3-73 → 29-1 ✓
3-74 → 28-3 ✓
3-75 → 29-2 ✓
3-76 → 30-1 ✓
3-77 → 29-3 ✓
3-78 → 30-2 ✓
3-79 → 31-1 ✓
3-80 → 30-3 ✓
3-81 → 31-2 ✓
3-82 → 32-1 ✓
3-83 → 31-3 ✓
3-84 → 32-2 ✓
3-85 → 33-1 ✓
3-86 → 32-3 ✓
3-87 → 33-2 ✓
3-88 → 34-1 ✓
3-89 → 33-3 ✓
3-90 → 34-2 ✓
3-91 → 35-1 ✓
3-92 → 34-3 ✓
3-93 → 35-2 ✓
3-94 → 36-1 ✓
3-95 → 35-3 ✓
3-96 → 36-2 ✓
3-97 → 37-1 ✓
3-98 → 36-3 ✓
3-99 → 37-2 ✓
3-100 → 38-1 ✓
3-101 → 37-3 ✓
3-102 → 38-2 ✓
3-103 → 39-1 ✓
3-104 → 38-3 ✓
3-105 → 39-2 ✓
3-106 → 40-1 ✓
3-107 → 39-3 ✓
3-108 → 40-2 ✓
3-109 → 41-1 ✓
3-110 → 40-3 ✓
3-111 → 41-2 ✓
3-112 → 42-1 ✓
3-113 → 41-3 ✓
3-114 → 42-2 ✓
3-115 → 43-1 ✓
3-116 → 42-3 ✓
3-117 → 43-2 ✓
3-118 → 44-1 ✓
3-119 → 43-3 ✓
3-120 → 44-2 ✓
3-121 → 45-1 ✓
3-122 → 44-3 ✓
3-123 → 45-2 ✓
3-124 → 46-1 ✓
3-125 → 45-3 ✓
3-126 → 46-2 ✓
3-127 → 47-1 ✓
3-128 → 46-3 ✓
3-129 → 47-2 ✓
3-130 → 48-1 ✓
3-131 → 47-3 ✓
3-132 → 48-2 ✓
3-133 → 49-1 ✓
3-134 → 48-3 ✓
3-135 → 49-2 ✓
3-136 → 50-1 ✓
3-137 → 49-3 ✓
3-138 → 50-2 ✓
3-139 → 51-1 ✓
3-140 → 50-3 ✓
3-141 → 51-2 ✓
3-142 → 52-1 ✓
3-143 → 51-3 ✓
3-144 → 52-2 ✓
3-145 → 53-1 ✓
3-146 → 52-3 ✓
3-147 → 53-2 ✓
3-148 → 54-1 ✓
3-149 → 53-3 ✓
3-150 → 54-2 ✓
3-151 → 55-1 ✓
3-152 → 54-3 ✓
3-153 → 55-2 ✓
3-154 → 56-1 ✓
3-155 → 55-3 ✓
3-156 → 56-2 ✓
3-157 → 57-1 ✓
3-158 → 56-3 ✓
3-159 → 57-2 ✓
3-160 → 58-1 ✓
3-161 → 57-3 ✓
3-162 → 58-2 ✓
3-163 → 59-1 ✓
3-164 → 58-3 ✓
3-165 → 59-2 ✓
3-166 → 60-1 ✓
3-167 → 59-3 ✓
3-168 → 60-2 ✓
3-169 → 61-1 ✓
3-170 → 60-3 ✓
3-171 → 61-2 ✓
3-172 → 62-1 ✓
3-173 → 61-3 ✓
3-174 → 62-2 ✓
3-175 → 63-1 ✓
3-176 → 62-3 ✓
3-177 → 63-2 ✓
3-178 → 64-1 ✓
3-179 → 63-3 ✓
3-180 → 64-2 ✓
3-181 → 65-1 ✓
3-182 → 64-3 ✓
3-183 → 65-2 ✓
3-184 → 66-1 ✓
3-185 → 65-3 ✓
3-186 → 66-2 ✓
3-187 → 67-1 ✓
3-188 → 66-3 ✓
3-189 → 67-2 ✓
3-190 → 68-1 ✓
3-191 → 67-3 ✓
3-192 → 68-2 ✓
3-193 → 69-1 ✓
3-194 → 68-3 ✓
3-195 → 69-2 ✓
3-196 → 70-1 ✓
3-197 → 69-3 ✓
3-198 → 70-2 ✓
3-199 → 71-1 ✓
3-200 → 70-3 ✓
3-201 → 71-2 ✓
3-202 → 72-1 ✓
3-203 → 71-3 ✓
3-204 → 72-2 ✓
3-205 → 73-1 ✓
3-206 → 72-3 ✓
3-207 → 73-2 ✓
3-208 → 74-1 ✓
3-209 → 73-3 ✓
3-210 → 74-2 ✓
3-211 → 75-1 ✓
3-212 → 74-3 ✓
3-213 → 75-2 ✓
3-214 → 76-1 ✓
3-215 → 75-3 ✓
3-216 → 76-2 ✓
3-217 → 77-1 ✓
3-218 → 76-3 ✓
3-219 → 77-2 ✓
3-220 → 78-1 ✓
3-221 → 77-3 ✓
3-222 → 78-2 ✓
3-223 → 79-1 ✓
3-224 → 78-3 ✓
3-225 → 79-2 ✓
3-226 → 80-1 ✓
3-227 → 79-3 ✓
3-228 → 80-2 ✓
3-229 → 81-1 ✓
3-230 → 80-3 ✓
3-231 → 81-2 ✓
3-232 → 82-1 ✓
3-233 → 81-3 ✓
3-234 → 82-2 ✓
3-235 → 83-1 ✓
3-236 → 82-3 ✓
3-237 → 83-2 ✓
3-238 → 84-1 ✓
3-239 → 83-3 ✓
3-240 → 84-2 ✓
3-241 → 85-1 ✓
3-242 → 84-3 ✓
3-243 → 85-2 ✓
3-244 → 86-1 ✓
3-245 → 85-3 ✓
3-246 → 86-2 ✓
3-247 → 87-1 ✓
3-248 → 86-3 ✓
3-249 → 87-2 ✓
3-250 → 88-1 ✓
3-251 → 87-3 ✓
3-252 → 88-2 ✓
3-253 → 89-1 ✓
3-254 → 88-3 ✓
3-255 → 89-2 ✓
3-256 → 90-1 ✓
3-257 → 89-3 ✓
3-258 → 90-2 ✓
3-259 → 91-1 ✓
3-260 → 90-3 ✓
3-261 → 91-2 ✓
3-262 → 92-1 ✓
3-263 → 91-3 ✓
3-264 → 92-2 ✓
3-265 → 93-1 ✓
3-266 → 92-3 ✓
3-267 → 93-2 ✓
3-268 → 94-1 ✓
3-269 → 93-3 ✓
3-270 → 94-2 ✓
3-271 → 95-1 ✓
3-272 → 94-3 ✓
3-273 → 95-2 ✓
3-274 → 96-1 ✓
3-275 → 95-3 ✓
3-276 → 96-2 ✓
3-277 → 97-1 ✓
3-278 → 96-3 ✓
3-279 → 97-2 ✓
3-280 → 98-1 ✓
3-281 → 97-3 ✓
3-282 → 98-2 ✓
3-283 → 99-1 ✓
3-284 → 98-3 ✓
3-285 → 99-2 ✓
3-286 → 100-1 ✓
3-287 → 99-3 ✓
3-288 → 100-2 ✓
3-289 → 101-1 ✓
3-290 → 100-3 ✓
3-291 → 101-2 ✓
3-292 → 102-1 ✓
3-293 → 101-3 ✓
3-294 → 102-2 ✓
3-295 → 103-1 ✓
3-296 → 102-3 ✓
3-297 → 103-2 ✓
3-298 → 104-1 ✓
3-299 → 103-3 ✓
3-300 → 104-2 ✓
3-301 → 105-1 ✓
3-302 → 104-3 ✓
3-303 → 105-2 ✓
3-304 → 106-1 ✓
3-305 → 105-3 ✓
3-306 → 106-2 ✓
3-307 → 107-1 ✓
3-308 → 106-3 ✓
3-309 → 107-2 ✓
3-310 → 108-1 ✓
3-311 → 107-3 ✓
3-312 → 108-2 ✓
3-313 → 109-1 ✓
3-314 → 108-3 ✓
3-315 → 109-2 ✓
3-316 → 110-1 ✓
3-317 → 109-3 ✓
3-318 → 110-2 ✓
3-319 → 111-1 ✓
3-320 → 110-3 ✓
3-321 → 111-2 ✓
3-322 → 112-1 ✓
3-323 → 111-3 ✓
3-324 → 112-2 ✓
3-325 → 113-1 ✓
3-326 → 112-3 ✓
3-327 → 113-2 ✓
3-328 → 114-1 ✓
3-329 → 113-3 ✓
3-330 → 114-2 ✓
3-331 → 115-1 ✓
3-332 → 114-3 ✓
3-333 → 115-2 ✓
3-334 → 116-1 ✓
3-335 → 115-3 ✓
3-336 → 116-2 ✓
3-337 → 117-1 ✓
3-338 → 116-3 ✓
3-339 → 117-2 ✓
3-340 → 118-1 ✓
3-341 → 117-3 ✓
3-342 → 118-2 ✓
3-343 → 119-1 ✓
3-344 → 118-3 ✓
3-345 → 119-2 ✓
3-346 → 120-1 ✓
3-347 → 119-3 ✓
3-348 → 120-2 ✓
3-349 → 121-1 ✓
3-350 → 120-3 ✓
3-351 → 121-2 ✓
3-352 → 122-1 ✓
3-353 → 121-3 ✓
3-354 → 122-2 ✓
3-355 → 123-1 ✓
3-356 → 122-3 ✓
3-357 → 123-2 ✓
3-358 → 124-1 ✓
3-359 → 123-3 ✓
3-360 → 124-2 ✓
3-361 → 125-1 ✓
3-362 → 124-3 ✓
3-363 → 125-2 ✓
3-364 → 126-1 ✓
3-365 → 125-3 ✓
3-366 → 126-2 ✓
3-367 → 127-1 ✓
3-368 → 126-3 ✓
3-369 → 127-2 ✓
3-370 → 128-1 ✓
3-371 → 127-3 ✓
3-372 → 128-2 ✓
3-373 → 129-1 ✓
3-374 → 128-3 ✓
3-375 → 129-2 ✓
3-376 → 130-1 ✓
3-377 → 129-3 ✓
3-378 → 130-2 ✓
3-379 → 131-1 ✓
3-380 → 130-3 ✓
3-381 → 131-2 ✓
3-382 → 132-1 ✓
3-383 → 131-3 ✓
3-384 → 132-2 ✓
3-385 → 133-1 ✓
3-386 → 132-3 ✓
3-387 → 133-2 ✓
3-388 → 134-1 ✓
3-389 → 133-3 ✓
3-390 → 134-2 ✓
3-391 → 135-1 ✓
3-392 → 134-3 ✓
3-393 → 135-2 ✓
3-394 → 136-1 ✓
3-395 → 135-3 ✓
3-396 → 136-2 ✓
3-397 → 137-1 ✓
3-398 → 136-3 ✓
3-399 → 137-2 ✓
3-400 → 138-1 ✓
3-401 → 137-3 ✓
3-402 → 138-2 ✓
3-403 → 139-1 ✓
3-404 → 138-3 ✓
3-405 → 139-2 ✓
3-406 → 140-1 ✓
3-407 → 139-3 ✓
3-408 → 140-2 ✓
3-409 → 141-1 ✓
3-410 → 140-3 ✓
3-411 → 141-2 ✓
3-412 → 142-1 ✓
3-413 → 141-3 ✓
3-414 → 142-2 ✓
3-415 → 143-1 ✓
3-416 → 142-3 ✓
3-417 → 143-2 ✓
3-418 → 144-1 ✓
3-419 → 143-3 ✓
3-420 → 144-2 ✓
3-421 → 145-1 ✓
3-422 → 144-3 ✓
3-423 → 145-2 ✓
3-424 → 146-1 ✓
3-425 → 145-3 ✓
3-426 → 146-2 ✓
3-427 → 147-1 ✓
3-428 → 146-3 ✓
3-429 → 147-2 ✓
3-430 → 148-1 ✓
3-431 → 147-3 ✓
3-432 → 148-2 ✓
3-433 → 149-1 ✓
3-434 → 148-3 ✓
3-435 → 149-2 ✓
3-436 → 150-1 ✓
3-437 → 149-3 ✓
3-438 → 150-2 ✓
3-439 → 151-1 ✓
3-440 → 150-3 ✓
3-441 → 151-2 ✓
3-442 → 152-1 ✓
3-443 → 151-3 ✓
3-444 → 152-2 ✓
3-445 → 153-1 ✓
3-446 → 152-3 ✓
3-447 → 153-2 ✓
3-448 → 154-1 ✓
3-449 → 153-3 ✓
3-450 → 154-2 ✓
3-451 → 155-1 ✓
3-452 → 154-3 ✓
3-453 → 155-2 ✓
3-454 → 156-1 ✓
3-455 → 155-3 ✓
3-456 → 156-2 ✓
3-457 → 157-1 ✓
3-458 → 156-3 ✓
3-459 → 157-2 ✓
3-460 → 158-1 ✓
3-461 → 157-3 ✓
3-462 → 158-2 ✓
3-463 → 159-1 ✓
3-464 → 158-3 ✓
3-465 → 159-2 ✓
3-466 → 160-1 ✓
3-467 → 159-3 ✓
3-468 → 160-2 ✓
3-469 → 161-1 ✓
3-470 → 160-3 ✓
3-471 → 161-2 ✓
3-472 → 162-1 ✓
3-473 → 161-3 ✓
3-474 → 162-2 ✓
3-475 → 163-1 ✓
3-476 → 162-3 ✓
3-477 → 163-2 ✓
3-478 → 164-1 ✓
3-479 → 163-3 ✓
3-480 → 164-2 ✓
3-481 → 165-1 ✓
3-482 → 164-3 ✓
3-483 → 165-2 ✓
3-484 → 166-1 ✓
3-485 → 165-3 ✓
3-486 → 166-2 ✓
3-487 → 167-1 ✓
3-488 → 166-3 ✓
3-489 → 167-2 ✓
3-490 → 168-1 ✓
3-491 → 167-3 ✓
3-492 → 168-2 ✓
3-493 → 169-1 ✓
3-494 → 168-3 ✓
3-495 → 169-2 ✓
3-496 → 170-1 ✓
3-497 → 169-3 ✓
3-498 → 170-2 ✓
3-499 → 171-1 ✓
3-500 → 170-3 ✓
3-501 → 171-2 ✓
3-502 → 172-1 ✓
3-503 → 171-3 ✓
3-504 → 172-2 ✓
3-505 → 173-1 ✓
3-506 → 172-3 ✓
3-507 → 173-2 ✓
3-508 → 174-1 ✓
3-509 → 173-3 ✓
3-510 → 174-2 ✓
3-511 → 175-1 ✓
3-512 → 174-3 ✓
3-513 → 175-2 ✓
3-514 → 176-1 ✓
3-515 → 175-3 ✓
3-516 → 176-2 ✓
3-517 → 177-1 ✓
3-518 → 176-3 ✓
3-519 → 177-2 ✓
3-520 → 178-1 ✓
3-521 → 177-3 ✓
3-522 → 178-2 ✓
3-523 → 179-1 ✓
3-524 → 178-3 ✓
3-525 → 179-2 ✓
3-526 → 180-1 ✓
3-527 → 179-3 ✓
3-528 → 180-2 ✓
3-529 → 181-1 ✓
3-530 → 180-3 ✓
3-531 → 181-2 ✓
3-532 → 182-1 ✓
3-533 → 181-3 ✓
3-534 → 182-2 ✓
3-535 → 183-1 ✓
3-536 → 182-3 ✓
3-537 → 183-2 ✓
3-538 → 184-1 ✓
3-539 → 183-3 ✓
3-540 → 184-2 ✓
3-541 → 185-1 ✓
3-542 → 184-3 ✓
3-543 → 185-2 ✓
3-544 → 186-1 ✓
3-545 → 185-3 ✓
3-546 → 186-2 ✓
3-547 → 187-1 ✓
3-548 → 186-3 ✓
3-549 → 187-2 ✓
3-550 → 188-1 ✓
3-551 → 187-3 ✓
3-552 → 188-2 ✓
3-553 → 189-1 ✓
3-554 → 188-3 ✓
3-555 → 189-2 ✓
3-556 → 190-1 ✓
3-557 → 189-3 ✓
3-558 → 190-2 ✓
3-559 → 191-1 ✓
3-560 → 190-3 ✓
3-561 → 191-2 ✓
3-562 → 192-1 ✓
3-563 → 191-3 ✓
3-564 → 192-2 ✓
3-565 → 193-1 ✓
3-566 → 192-3 ✓
3-567 → 193-2 ✓
3-568 → 194-1 ✓
3-569 → 193-3 ✓
3-570 → 194-2 ✓
3-571 → 195-1 ✓
3-572 → 194-3 ✓
3-573 → 195-2 ✓
3-574 → 196-1 ✓
3-575 → 195-3 ✓
3-576 → 196-2 ✓
3-577 → 197-1 ✓
3-578 → 196-3 ✓
3-579 → 197-2 ✓
3-580 → 198-1 ✓
3-581 → 197-3 ✓
3-582 → 198-2 ✓
3-583 → 199-1 ✓
3-584 → 198-3 ✓
3-585 → 199-2 ✓
3-586 → 200-1 ✓
3-587 → 199-3 ✓
3-588 → 200-2 ✓
3-589 → 201-1 ✓
3-590 → 200-3 ✓
3-591 → 201-2 ✓
3-592 → 202-1 ✓
3-593 → 201-3 ✓
3-594 → 202-2 ✓
3-595 → 203-1 ✓
3-596 → 202-3 ✓
3-597 → 203-2 ✓
3-598 → 204-1 ✓
3-599 → 203-3 ✓
3-600 → 204-2 ✓
3-601 → 205-1 ✓
3-602 → 204-3 ✓
3-603 → 205-2 ✓
3-604 → 206-1 ✓
3-605 → 205-3 ✓
3-606 → 206-2 ✓
3-607 → 207-1 ✓
3-608 → 206-3 ✓
3-609 → 207-2 ✓
3-610 →