

blob detection using opencv pdf

A couple weeks ago we learned how to classify images using deep learning and OpenCV 3.3's deep neural network (dnn) module. While this original blog post demonstrated how we can categorize an image into one of ImageNet's 1,000 separate class labels it could not tell us where an object resides in image.

Object detection with deep learning and OpenCV

Real-time object detection with deep learning and OpenCV. Today's blog post is broken into two parts. In the first part we'll learn how to extend last week's tutorial to apply real-time object detection using deep learning and OpenCV to work with video streams and video files.

Real-time object detection with deep learning and OpenCV

Windows and Linux version of Darknet Yolo v3 & v2 Neural Networks for object detection (Tensor Cores are used) - AlexeyAB/darknet

GitHub - AlexeyAB/darknet: Windows and Linux version of

Camera Calibration and 3D Reconstruction The functions in this section use a so-called pinhole camera model. In this model, a scene view is formed by projecting 3D points into the image plane using a perspective transformation.

Camera Calibration and 3D Reconstruction - OpenCV

The Canny edge detector is an edge detection operator that uses a multi-stage algorithm to detect a wide range of edges in images. It was developed by John F. Canny in 1986.

Canny edge detector - Wikipedia

In computer vision, maximally stable extremal regions (MSER) are used as a method of blob detection in images. This technique was proposed by Matas et al. to find correspondences between image elements from two images with different viewpoints.

Maximally stable extremal regions - Wikipedia

Using several image processing techniques, including color segmentation, thresholding, BLOB analysis, feature extraction etc. the system is capable extracting the color, location and orientation of the DUPLO bricks currently present in the camera image.

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accord.net | 1/4 | 1/2 | 3/4 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 | 10.5 | 11 | 11.5 | 12 | 12.5 | 13 | 13.5 | 14 | 14.5 | 15 | 15.5 | 16 | 16.5 | 17 | 17.5 | 18 | 18.5 | 19 | 19.5 | 20 | 20.5 | 21 | 21.5 | 22 | 22.5 | 23 | 23.5 | 24 | 24.5 | 25 | 25.5 | 26 | 26.5 | 27 | 27.5 | 28 | 28.5 | 29 | 29.5 | 30 | 30.5 | 31 | 31.5 | 32 | 32.5 | 33 | 33.5 | 34 | 34.5 | 35 | 35.5 | 36 | 36.5 | 37 | 37.5 | 38 | 38.5 | 39 | 39.5 | 40 | 40.5 | 41 | 41.5 | 42 | 42.5 | 43 | 43.5 | 44 | 44.5 | 45 | 45.5 | 46 | 46.5 | 47 | 47.5 | 48 | 48.5 | 49 | 49.5 | 50 | 50.5 | 51 | 51.5 | 52 | 52.5 | 53 | 53.5 | 54 | 54.5 | 55 | 55.5 | 56 | 56.5 | 57 | 57.5 | 58 | 58.5 | 59 | 59.5 | 60 | 60.5 | 61 | 61.5 | 62 | 62.5 | 63 | 63.5 | 64 | 64.5 | 65 | 65.5 | 66 | 66.5 | 67 | 67.5 | 68 | 68.5 | 69 | 69.5 | 70 | 70.5 | 71 | 71.5 | 72 | 72.5 | 73 | 73.5 | 74 | 74.5 | 75 | 75.5 | 76 | 76.5 | 77 | 77.5 | 78 | 78.5 | 79 | 79.5 | 80 | 80.5 | 81 | 81.5 | 82 | 82.5 | 83 | 83.5 | 84 | 84.5 | 85 | 85.5 | 86 | 86.5 | 87 | 87.5 | 88 | 88.5 | 89 | 89.5 | 90 | 90.5 | 91 | 91.5 | 92 | 92.5 | 93 | 93.5 | 94 | 94.5 | 95 | 95.5 | 96 | 96.5 | 97 | 97.5 | 98 | 98.5 | 99 | 99.5 | 100 | 100.5 | 101 | 101.5 | 102 | 102.5 | 103 | 103.5 | 104 | 104.5 | 105 | 105.5 | 106 | 106.5 | 107 | 107.5 | 108 | 108.5 | 109 | 109.5 | 110 | 110.5 | 111 | 111.5 | 112 | 112.5 | 113 | 113.5 | 114 | 114.5 | 115 | 115.5 | 116 | 116.5 | 117 | 117.5 | 118 | 118.5 | 119 | 119.5 | 120 | 120.5 | 121 | 121.5 | 122 | 122.5 | 123 | 123.5 | 124 | 124.5 | 125 | 125.5 | 126 | 126.5 | 127 | 127.5 | 128 | 128.5 | 129 | 129.5 | 130 | 130.5 | 131 | 131.5 | 132 | 132.5 | 133 | 133.5 | 134 | 134.5 | 135 | 135.5 | 136 | 136.5 | 137 | 137.5 | 138 | 138.5 | 139 | 139.5 | 140 | 140.5 | 141 | 141.5 | 142 | 142.5 | 143 | 143.5 | 144 | 144.5 | 145 | 145.5 | 146 | 146.5 | 147 | 147.5 | 148 | 148.5 | 149 | 149.5 | 150 | 150.5 | 151 | 151.5 | 152 | 152.5 | 153 | 153.5 | 154 | 154.5 | 155 | 155.5 | 156 | 156.5 | 157 | 157.5 | 158 | 158.5 | 159 | 159.5 | 160 | 160.5 | 161 | 161.5 | 162 | 162.5 | 163 | 163.5 | 164 | 164.5 | 165 | 165.5 | 166 | 166.5 | 167 | 167.5 | 168 | 168.5 | 169 | 169.5 | 170 | 170.5 | 171 | 171.5 | 172 | 172.5 | 173 | 173.5 | 174 | 174.5 | 175 | 175.5 | 176 | 176.5 | 177 | 177.5 | 178 | 178.5 | 179 | 179.5 | 180 | 180.5 | 181 | 181.5 | 182 | 182.5 | 183 | 183.5 | 184 | 184.5 | 185 | 185.5 | 186 | 186.5 | 187 | 187.5 | 188 | 188.5 | 189 | 189.5 | 190 | 190.5 | 191 | 191.5 | 192 | 192.5 | 193 | 193.5 | 194 | 194.5 | 195 | 195.5 | 196 | 196.5 | 197 | 197.5 | 198 | 198.5 | 199 | 199.5 | 200 | 200.5 | 201 | 201.5 | 202 | 202.5 | 203 | 203.5 | 204 | 204.5 | 205 | 205.5 | 206 | 206.5 | 207 | 207.5 | 208 | 208.5 | 209 | 209.5 | 210 | 210.5 | 211 | 211.5 | 212 | 212.5 | 213 | 213.5 | 214 | 214.5 | 215 | 215.5 | 216 | 216.5 | 217 | 217.5 | 218 | 218.5 | 219 | 219.5 | 220 | 220.5 | 221 | 221.5 | 222 | 222.5 | 223 | 223.5 | 224 | 224.5 | 225 | 225.5 | 226 | 226.5 | 227 | 227.5 | 228 | 228.5 | 229 | 229.5 | 230 | 230.5 | 231 | 231.5 | 232 | 232.5 | 233 | 233.5 | 234 | 234.5 | 235 | 235.5 | 236 | 236.5 | 237 | 237.5 | 238 | 238.5 | 239 | 239.5 | 240 | 240.5 | 241 | 241.5 | 242 | 242.5 | 243 | 243.5 | 244 | 244.5 | 245 | 245.5 | 246 | 246.5 | 247 | 247.5 | 248 | 248.5 | 249 | 249.5 | 250 | 250.5 | 251 | 251.5 | 252 | 252.5 | 253 | 253.5 | 254 | 254.5 | 255 | 255.5 | 256 | 256.5 | 257 | 257.5 | 258 | 258.5 | 259 | 259.5 | 260 | 260.5 | 261 | 261.5 | 262 | 262.5 | 263 | 263.5 | 264 | 264.5 | 265 | 265.5 | 266 | 266.5 | 267 | 267.5 | 268 | 268.5 | 269 | 269.5 | 270 | 270.5 | 271 | 271.5 | 272 | 272.5 | 273 | 273.5 | 274 | 274.5 | 275 | 275.5 | 276 | 276.5 | 277 | 277.5 | 278 | 278.5 | 279 | 279.5 | 280 | 280.5 | 281 | 281.5 | 282 | 282.5 | 283 | 283.5 | 284 | 284.5 | 285 | 285.5 | 286 | 286.5 | 287 | 287.5 | 288 | 288.5 | 289 | 289.5 | 290 | 290.5 | 291 | 291.5 | 292 | 292.5 | 293 | 293.5 | 294 | 294.5 | 295 | 295.5 | 296 | 296.5 | 297 | 297.5 | 298 | 298.5 | 299 | 299.5 | 300 | 300.5 | 301 | 301.5 | 302 | 302.5 | 303 | 303.5 | 304 | 304.5 | 305 | 305.5 | 306 | 306.5 | 307 | 307.5 | 308 | 308.5 | 309 | 309.5 | 310 | 310.5 | 311 | 311.5 | 312 | 312.5 | 313 | 313.5 | 314 | 314.5 | 315 | 315.5 | 316 | 316.5 | 317 | 317.5 | 318 | 318.5 | 319 | 319.5 | 320 | 320.5 | 321 | 321.5 | 322 | 322.5 | 323 | 323.5 | 324 | 324.5 | 325 | 325.5 | 326 | 326.5 | 327 | 327.5 | 328 | 328.5 | 329 | 329.5 | 330 | 330.5 | 331 | 331.5 | 332 | 332.5 | 333 | 333.5 | 334 | 334.5 | 335 | 335.5 | 336 | 336.5 | 337 | 337.5 | 338 | 338.5 | 339 | 339.5 | 340 | 340.5 | 341 | 341.5 | 342 | 342.5 | 343 | 343.5 | 344 | 344.5 | 345 | 345.5 | 346 | 346.5 | 347 | 347.5 | 348 | 348.5 | 349 | 349.5 | 350 | 350.5 | 351 | 351.5 | 352 | 352.5 | 353 | 353.5 | 354 | 354.5 | 355 | 355.5 | 356 | 356.5 | 357 | 357.5 | 358 | 358.5 | 359 | 359.5 | 360 | 360.5 | 361 | 361.5 | 362 | 362.5 | 363 | 363.5 | 364 | 364.5 | 365 | 365.5 | 366 | 366.5 | 367 | 367.5 | 368 | 368.5 | 369 | 369.5 | 370 | 370.5 | 371 | 371.5 | 372 | 372.5 | 373 | 373.5 | 374 | 374.5 | 375 | 375.5 | 376 | 376.5 | 377 | 377.5 | 378 | 378.5 | 379 | 379.5 | 380 | 380.5 | 381 | 381.5 | 382 | 382.5 | 383 | 383.5 | 384 | 384.5 | 385 | 385.5 | 386 | 386.5 | 387 | 387.5 | 388 | 388.5 | 389 | 389.5 | 390 | 390.5 | 391 | 391.5 | 392 | 392.5 | 393 | 393.5 | 394 | 394.5 | 395 | 395.5 | 396 | 396.5 | 397 | 397.5 | 398 | 398.5 | 399 | 399.5 | 400 | 400.5 | 401 | 401.5 | 402 | 402.5 | 403 | 403.5 | 404 | 404.5 | 405 | 405.5 | 406 | 406.5 | 407 | 407.5 | 408 | 408.5 | 409 | 409.5 | 410 | 410.5 | 411 | 411.5 | 412 | 412.5 | 413 | 413.5 | 414 | 414.5 | 415 | 415.5 | 416 | 416.5 | 417 | 417.5 | 418 | 418.5 | 419 | 419.5 | 420 | 420.5 | 421 | 421.5 | 422 | 422.5 | 423 | 423.5 | 424 | 424.5 | 425 | 425.5 | 426 | 426.5 | 427 | 427.5 | 428 | 428.5 | 429 | 429.5 | 430 | 430.5 | 431 | 431.5 | 432 | 432.5 | 433 | 433.5 | 434 | 434.5 | 435 | 435.5 | 436 | 436.5 | 437 | 437.5 | 438 | 438.5 | 439 | 439.5 | 440 | 440.5 | 441 | 441.5 | 442 | 442.5 | 443 | 443.5 | 444 | 444.5 | 445 | 445.5 | 446 | 446.5 | 447 | 447.5 | 448 | 448.5 | 449 | 449.5 | 450 | 450.5 | 451 | 451.5 | 452 | 452.5 | 453 | 453.5 | 454 | 454.5 | 455 | 455.5 | 456 | 456.5 | 457 | 457.5 | 458 | 458.5 | 459 | 459.5 | 460 | 460.5 | 461 | 461.5 | 462 | 462.5 | 463 | 463.5 | 464 | 464.5 | 465 | 465.5 | 466 | 466.5 | 467 | 467.5 | 468 | 468.5 | 469 | 469.5 | 470 | 470.5 | 471 | 471.5 | 472 | 472.5 | 473 | 473.5 | 474 | 474.5 | 475 | 475.5 | 476 | 476.5 | 477 | 477.5 | 478 | 478.5 | 479 | 479.5 | 480 | 480.5 | 481 | 481.5 | 482 | 482.5 | 483 | 483.5 | 484 | 484.5 | 485 | 485.5 | 486 | 486.5 | 487 | 487.5 | 488 | 488.5 | 489 | 489.5 | 490 | 490.5 | 491 | 491.5 | 492 | 492.5 | 493 | 493.5 | 494 | 494.5 | 495 | 495.5 | 496 | 496.5 | 497 | 497.5 | 498 | 498.5 | 499 | 499.5 | 500 | 500.5 | 501 | 501.5 | 502 | 502.5 | 503 | 503.5 | 504 | 504.5 | 505 | 505.5 | 506 | 506.5 | 507 | 507.5 | 508 | 508.5 | 509 | 509.5 | 510 | 510.5 | 511 | 511.5 | 512 | 512.5 | 513 | 513.5 | 514 | 514.5 | 515 | 515.5 | 516 | 516.5 | 517 | 517.5 | 518 | 518.5 | 519 | 519.5 | 520 | 520.5 | 521 | 521.5 | 522 | 522.5 | 523 | 523.5 | 524 | 524.5 | 525 | 525.5 | 526 | 526.5 | 527 | 527.5 | 528 | 528.5 | 529 | 529.5 | 530 | 530.5 | 531 | 531.5 | 532 | 532.5 | 533 | 533.5 | 534 | 534.5 | 535 | 535.5 | 536 | 536.5 | 537 | 537.5 | 538 | 538.5 | 539 | 539.5 | 540 | 540.5 | 541 | 541.5 | 542 | 542.5 | 543 | 543.5 | 544 | 544.5 | 545 | 545.5 | 546 | 546.5 | 547 | 547.5 | 548 | 548.5 | 549 | 549.5 | 550 | 550.5 | 551 | 551.5 | 552 | 552.5 | 553 | 553.5 | 554 | 554.5 | 555 | 555.5 | 556 | 556.5 | 557 | 557.5 | 558 | 558.5 | 559 | 559.5 | 560 | 560.5 | 561 | 561.5 | 562 | 562.5 | 563 | 563.5 | 564 | 564.5 | 565 | 565.5 | 566 | 566.5 | 567 | 567.5 | 568 | 568.5 | 569 | 569.5 | 570 | 570.5 | 571 | 571.5 | 572 | 572.5 | 573 | 573.5 | 574 | 574.5 | 575 | 575.5 | 576 | 576.5 | 577 | 577.5 | 578 | 578.5 | 579 | 579.5 | 580 | 580.5 | 581 | 581.5 | 582 | 582.5 | 583 | 583.5 | 584 | 584.5 | 585 | 585.5 | 586 | 586.5 | 587 | 587.5 | 588 | 588.5 | 589 | 589.5 | 590 | 590.5 | 591 | 591.5 | 592 | 592.5 | 593 | 593.5 | 594 | 594.5 | 595 | 595.5 | 596 | 596.5 | 597 | 597.5 | 598 | 598.5 | 599 | 599.5 | 600 | 600.5 | 601 | 601.5 | 602 | 602.5 | 603 | 603.5 | 604 | 604.5 | 605 | 605.5 | 606 | 606.5 | 607 | 607.5 | 608 | 608.5 | 609 | 609.5 | 610 | 610.5 | 611 | 611.5 | 612 | 612.5 | 613 | 613.5 | 614 | 614.5 | 615 | 615.5 | 616 | 616.5 | 617 | 617.5 | 618 | 618.5 | 619 | 619.5 | 620 | 620.5 | 621 | 621.5 | 622 | 622.5 | 623 | 623.5 | 624 | 624.5 | 625 | 625.5 | 626 | 626.5 | 627 | 627.5 | 628 | 628.5 | 629 | 629.5 | 630 | 630.5 | 631 | 631.5 | 632 | 632.5 | 633 | 633.5 | 634 | 634.5 | 635 | 635.5 | 636 | 636.5 | 637 | 637.5 | 638 | 638.5 | 639 | 639.5 | 640 | 640.5 | 641 | 641.5 | 642 | 642.5 | 643 | 643.5 | 644 | 644.5 | 645 | 645.5 | 646 | 646.5 | 647 | 647.5 | 648 | 648.5 | 649 | 649.5 | 650 | 650.5 | 651 | 651.5 | 652 | 652.5 | 653 | 653.5 | 654 | 654.5 | 655 | 655.5 | 656 | 656.5 | 657 | 657.5 | 658 | 658.5 | 659 | 659.5 | 660 | 660.5 | 661 | 661.5 | 662 | 662.5 | 663 | 663.5 | 664 | 664.5 | 665 | 665.5 | 666 | 666.5 | 667 | 667.5 | 668 | 668.5 | 669 | 669.5 | 670 | 670.5 | 671 | 671.5 | 672 | 672.5 | 673 | 673.5 | 674 | 674.5 | 675 | 675.5 | 676 | 676.5 | 677 | 677.5 | 678 | 678.5 | 679 | 679.5 | 680 | 680.5 | 681 | 681.5 | 682 | 682.5 | 683 | 683.5 | 684 | 684.5 | 685 | 685.5 | 686 | 686.5 | 687 | 687.5 | 688 | 688.5 | 689 | 689.5 | 690 | 690.5 | 691 | 691.5 | 692 | 692.5 | 693 | 693.5 | 694 | 694.5 | 695 | 695.5 | 696 | 696.5 | 697 | 697.5 | 698 | 698.5 | 699 | 699.5 | 700 | 700.5 | 701 | 701.5 | 702 | 702.5 | 703 | 703.5 | 704 | 704.5 | 705 | 705.5 | 706 | 706.5 | 707 | 707.5 | 708 | 708.5 | 709 | 709.5 | 710 | 710.5 | 711 | 711.5 | 712 | 712.5 | 713 | 713.5 | 714 | 714.5 | 715 | 715.5 | 716 | 716.5 | 717 | 717.5 | 718 | 718.5 | 719 | 719.5 | 720 | 720.5 | 721 | 721.5 | 722 | 722.5 | 723 | 723.5 | 724 | 724.5 | 725 | 725.5 | 726 | 726.5 | 727 | 727.5 | 728 | 728.5 | 729 | 729.5 | 730 | 730.5 | 731 | 731.5 | 732 | 732.5 | 733 | 733.5 | 734 | 734.5 | 735 | 735.5 | 736 | 736.5 | 737 | 737.5 | 738 | 738.5 | 739 | 739.5 | 740 | 740.5 | 741 | 741.5 | 742 | 742.5 | 743 | 743.5 | 744 | 744.5 | 745 | 745.5 | 746 | 746.5 | 747 | 747.5 | 748 | 748.5 | 749 | 749.5 | 750 | 750.5 | 751 | 751.5 | 752 | 752.5 | 753 | 753.5 | 754 | 754.5 | 755 | 755.5 | 756 | 756.5 | 757 | 757.5 | 758 | 758.5 | 759 | 759.5 | 760 | 760.5 | 761 | 761.5 | 762 | 762.5 | 763 | 763.5 | 764 | 764.5 | 765 | 765.5 | 766 | 766.5 | 767 | 767.5 | 768 | 768.5 | 769 | 769.5 | 770 | 770.5 | 771 | 771.5 | 772 | 772.5 | 773 | 773.5 | 774 | 774.5 | 775 | 775.5 | 776 | 776.5 | 777 | 777.5 | 778 | 778.5 | 779 | 779.5 | 780 | 780.5 | 781 | 781.5 | 782 | 782.5 | 783 | 783.5 | 784 | 784.5 | 785 | 785.5 | 786 | 786.5 | 787 | 787.5 | 788 | 788.5 | 789 | 789.5 | 790 | 790.5 | 791 | 791.5 | 792 | 792.5 | 793 | 793.5 | 794 | 794.5 | 795 | 795.5 | 796 | 796.5 | 797 | 797.5 | 798 | 798.5 | 799 | 799.5 | 800 | 800.5 | 801 | 801.5 | 802 | 802.5 | 803 | 803.5 | 804 | 804.5 | 805 | 805.5 | 806 | 806.5 | 807 | 807.5 | 808 | 808.5 | 809 | 809.5 | 810 | 810.5 | 811 | 811.5 | 812 | 812.5 | 813 | 813.5 | 814 | 814.5 | 815 | 815.5 | 816 | 816.5 | 817 | 817.5 | 818 | 818.5 | 819 | 819.5 | 820 | 820.5 | 821 | 821.5 | 822 | 822.5 | 823 | 823.5 | 824 | 824.5 | 825 | 825.5 | 826 | 826.5 | 827 | 827.5 | 828 | 828.5 | 829 | 829.5 | 830 | 830.5 | 831 | 831.5 | 832 | 832.5 | 833 | 833.5 | 834 | 834.5 | 835 | 835.5 | 836 | 836.5 | 837 | 837.5 | 838 | 838.5 | 839 | 839.5 | 840 | 840.5 | 841 | 841.5 | 842 | 842.5 | 843 | 843.5 | 844 | 844.5 | 845 | 845.5 | 846 | 846.5 | 847 | 847.5 | 848 | 848.5 | 849 | 849.5 | 850 | 850.5 | 851 | 851.5 | 852 | 852.5 | 853 | 853.5 | 854 | 854.5 | 855 | 855.5 | 856 | 856.5 | 857 | 857.5 | 858 | 858.5 | 859 | 859.5 | 860 | 860.5 | 861 | 861.5 | 862 | 862.5 | 863 | 863.5 | 864 | 864.5 | 865 | 865.5 | 866 | 866.5 | 867 | 867.5 | 868 | 868.5 | 869 | 869.5 | 870 | 870.5 | 871 | 871.5 | 872 | 872.5 | 873 | 873.5 | 874 | 874.5 | 875 | 875.5 | 876 | 876.5 | 877 | 877.5 | 878 | 878.5 | 879 | 879.5 | 880 | 880.5 | 881 | 881.5 | 882 | 882.5 | 883 | 883.5 | 884 | 884.5 | 885 | 885.5 | 886 | 886.5 | 887 | 887.5 | 888 | 888.5 | 889 | 889.5 | 890 | 890.5 | 891 | 891.5 | 892 | 892.5 | 893 | 893.5 | 894 | 894.5 | 895 | 895.5 | 896 | 896.5 | 897 | 897.5 | 898 | 898.5 | 899 | 899.5 | 900 | 900.5 | 901 | 901.5 | 902 | 902.5 | 903 | 903.5 | 904 | 904.5 | 905 | 905.5 | 906 | 906.5 | 907 | 907.5 | 908 | 908.5 | 909 | 909.5 | 910 | 910.5 | 911 | 911.5 | 912 | 912.5 | 913 | 913.5 | 914 | 914.5 | 915 | 915.5 | 916 | 916.5 | 917 | 917.5 | 918 | 918.5 | 919 | 919.5 | 920 | 920.5 | 921 | 921.5 | 922 | 922.5 | 923 | 923.5 | 924 | 924.5 | 925 | 925.5 | 926 | 926.5 | 927 | 927.5 | 928 | 928.5 | 929 | 929.5 | 930 | 930.5 | 931 | 931.5 | 932 | 932.5 | 933 | 933.5 | 934 | 934.5 | 935 | 935.5 | 936 | 936.5 | 937 | 937.5 | 938 | 938.5 | 939 | 939.5 | 940 | 940.5 | 941 | 941.5 | 942 | 942.5 | 943 | 943.5 | 944 | 944.5 | 945 | 945.5 | 946 | 946.5 | 947 | 947.5 | 948 | 948.5 | 949 | 949.5 | 950 | 950.5 | 951 | 951.5 | 952 | 952.5 | 953 | 953.5 | 954 | 954.5 | 955 | 955.5 | 956 | 956.5 | 957 |

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