

Deneyi yapan: Umur Benzer
Deneydeki nesil sayısı: 200
Bir nesildeki kromozom sayısı: 32
Her crossover tekniği için ortalama almakta kullanılan sample sayısı: 1000
Bu deney yapılırken kullanılan problemde doğru cevap olarak 115 beklenmektedir.

| 1000 sampleda ortalama cevap | | | | | Doğru cevaba ulaştığı nesil numarası | | | | | Ortalamalar | |
|------------------------------|-----------------|------------------|---------|-------------|--------------------------------------|-----------------|------------------|---------|-------------|------------------|-------------|
| Nesil No | Tek Noktadan CO | Çift Noktadan CO | Uniform | Intelligent | Sample No | Tek Noktadan CO | Çift Noktadan CO | Uniform | Intelligent | Tek Noktadan CO | 22.968 |
| 1 | 99.114 | 2.29 | 35.897 | 29.16 | 1 | 50 | 54 | 51 | 156 | Çift Noktadan CO | 40.815 |
| 2 | 99.64 | 14.166 | 45.781 | 37.164 | 2 | 27 | 53 | 18 | 3 | Uniform | 33.443 |
| 3 | 100.15 | 25.317 | 53.079 | 40.101 | 3 | 13 | 44 | 9 | 147 | Intelligent | diskalifiye |
| 4 | 100.761 | 35.148 | 59.188 | 42.745 | 4 | 52 | 17 | 17 | 1 | | |
| 5 | 101.409 | 43.007 | 64.878 | 45.402 | 5 | 15 | 48 | 23 | 25 | | |
| 6 | 102.108 | 48.767 | 69.484 | 48.267 | 6 | 2 | 35 | 15 | 1 | | |
| 7 | 102.888 | 54.033 | 74.097 | 50.975 | 7 | 5 | 20 | 30 | 1 | | |
| 8 | 103.621 | 58.641 | 78.591 | 54.271 | 8 | 27 | 40 | 32 | 72 | | |
| 9 | 104.431 | 63.11 | 82.178 | 57.767 | 9 | 31 | 80 | 40 | 3 | | |
| 10 | 105.149 | 67.475 | 86.163 | 61.3 | 10 | 15 | 100 | 18 | 17 | | |
| 11 | 106.016 | 71.21 | 89.422 | 64.756 | 11 | 5 | 19 | 22 | 183 | | |
| 12 | 106.839 | 74.399 | 92.354 | 68.22 | 12 | 7 | 25 | 11 | 20 | | |
| 13 | 107.61 | 77.096 | 94.73 | 71.761 | 13 | 4 | 12 | 27 | 1 | | |
| 14 | 108.328 | 80.22 | 97.003 | 74.896 | 14 | 11 | 50 | 59 | 2 | | |
| 15 | 109.019 | 83.047 | 99.145 | 78.563 | 15 | 13 | 32 | 25 | 3 | | |
| 16 | 109.727 | 85.532 | 100.909 | 80.824 | 16 | 16 | 21 | 48 | 34 | | |
| 17 | 110.231 | 88.041 | 102.786 | 82.833 | 17 | 4 | 17 | 17 | 33 | | |
| 18 | 110.711 | 90.575 | 104.123 | 84.578 | 18 | 18 | 29 | 34 | 136 | | |
| 19 | 111.192 | 92.836 | 105.616 | 86.195 | 19 | 18 | 50 | 39 | | | |
| 20 | 111.518 | 94.433 | 106.565 | 87.031 | 20 | 17 | 44 | 31 | | | |
| 21 | 111.905 | 96.3 | 107.497 | 88.22 | 21 | 31 | 83 | 34 | | | |
| 22 | 112.216 | 98.195 | 108.439 | 89.042 | 22 | 26 | 12 | 56 | | | |
| 23 | 112.463 | 99.657 | 109.191 | 89.817 | 23 | 31 | 54 | 11 | | | |
| 24 | 112.755 | 100.851 | 109.914 | 90.5 | 24 | 8 | 42 | 13 | | | |
| 25 | 112.944 | 101.909 | 110.46 | 90.91 | 25 | 38 | 32 | 12 | | | |
| 26 | 113.124 | 102.96 | 110.943 | 91.38 | 26 | 46 | 36 | 16 | | | |
| 27 | 113.391 | 104.151 | 111.351 | 91.641 | 27 | 3 | 13 | 45 | | | |
| 28 | 113.512 | 105.001 | 111.786 | 91.953 | 28 | 16 | 41 | 41 | | | |
| 29 | 113.703 | 105.931 | 112.099 | 92.157 | 29 | 17 | 15 | 27 | | | |
| 30 | 113.834 | 106.695 | 112.389 | 92.452 | 30 | 7 | 51 | 26 | | | |
| 31 | 113.957 | 107.489 | 112.627 | 92.705 | 31 | 38 | 61 | 25 | | | |
| 32 | 114.058 | 108.131 | 112.886 | 92.892 | 32 | 22 | 49 | 85 | | | |
| 33 | 114.155 | 108.795 | 113.061 | 93.268 | 33 | 13 | 17 | 24 | | | |
| 34 | 114.247 | 109.192 | 113.235 | 93.5 | 34 | 7 | 96 | 36 | | | |
| 35 | 114.334 | 109.685 | 113.409 | 93.627 | 35 | 28 | 26 | 53 | | | |
| 36 | 114.401 | 110.229 | 113.497 | 93.768 | 36 | 23 | 44 | 15 | | | |
| 37 | 114.457 | 110.619 | 113.621 | 93.876 | 37 | 15 | 38 | 18 | | | |
| 38 | 114.519 | 111.029 | 113.734 | 94.031 | 38 | 48 | 31 | 57 | | | |
| 39 | 114.57 | 111.434 | 113.848 | 94.179 | 39 | 15 | 54 | 16 | | | |
| 40 | 114.618 | 111.656 | 113.934 | 94.367 | 40 | 8 | 14 | 24 | | | |
| 41 | 114.641 | 111.922 | 114.045 | 94.418 | 41 | 27 | 21 | 24 | | | |
| 42 | 114.661 | 112.185 | 114.145 | 94.53 | 42 | 16 | 33 | 19 | | | |
| 43 | 114.683 | 112.435 | 114.193 | 94.741 | 43 | 71 | 91 | 24 | | | |
| 44 | 114.721 | 112.569 | 114.234 | 94.902 | 44 | 26 | 31 | 61 | | | |
| 45 | 114.745 | 112.7 | 114.332 | 95.063 | 45 | 25 | 15 | 22 | | | |
| 46 | 114.754 | 112.888 | 114.386 | 95.22 | 46 | 5 | 70 | 10 | | | |
| 47 | 114.776 | 112.953 | 114.432 | 95.334 | 47 | 15 | 62 | 27 | | | |
| 48 | 114.806 | 113.092 | 114.471 | 95.507 | 48 | 19 | 36 | 26 | | | |
| 49 | 114.818 | 113.266 | 114.505 | 95.651 | 49 | 18 | 58 | 24 | | | |
| 50 | 114.832 | 113.38 | 114.532 | 95.77 | 50 | 36 | 55 | 54 | | | |
| 51 | 114.85 | 113.445 | 114.561 | 95.888 | 51 | 19 | 39 | 31 | | | |
| 52 | 114.868 | 113.579 | 114.594 | 95.992 | 52 | 22 | 28 | 34 | | | |
| 53 | 114.883 | 113.729 | 114.622 | 96.102 | 53 | 14 | 29 | 19 | | | |
| 54 | 114.889 | 113.786 | 114.649 | 96.3 | 54 | 29 | 33 | 38 | | | |
| 55 | 114.902 | 113.833 | 114.676 | 96.401 | 55 | 26 | 73 | 28 | | | |
| 56 | 114.913 | 113.886 | 114.689 | 96.469 | 56 | 71 | 27 | 7 | | | |
| 57 | 114.921 | 114.002 | 114.706 | 96.563 | 57 | 38 | 43 | 59 | | | |
| 58 | 114.925 | 114.06 | 114.729 | 96.568 | 58 | 17 | 35 | 25 | | | |
| 59 | 114.929 | 114.136 | 114.743 | 96.649 | 59 | 28 | 19 | 15 | | | |
| 60 | 114.936 | 114.224 | 114.752 | 96.715 | 60 | 3 | 35 | 57 | | | |
| 61 | 114.938 | 114.257 | 114.765 | 96.876 | 61 | 46 | 59 | 39 | | | |
| 62 | 114.947 | 114.295 | 114.788 | 96.972 | 62 | 16 | 19 | 50 | | | |
| 63 | 114.951 | 114.326 | 114.795 | 97.006 | 63 | 8 | 64 | 44 | | | |
| 64 | 114.951 | 114.351 | 114.813 | 97.05 | 64 | 12 | 42 | 41 | | | |
| 65 | 114.953 | 114.365 | 114.835 | 97.153 | 65 | 2 | 93 | 46 | | | |
| 66 | 114.957 | 114.385 | 114.844 | 97.215 | 66 | 30 | 36 | 65 | | | |
| 67 | 114.957 | 114.413 | 114.854 | 97.215 | 67 | 27 | 39 | 16 | | | |
| 68 | 114.963 | 114.433 | 114.865 | 97.281 | 68 | 23 | 36 | 129 | | | |
| 69 | 114.967 | 114.489 | 114.875 | 97.354 | 69 | 8 | 43 | 57 | | | |
| 70 | 114.968 | 114.51 | 114.88 | 97.442 | 70 | 21 | 28 | 38 | | | |
| 71 | 114.968 | 114.562 | 114.882 | 97.505 | 71 | 24 | 42 | 20 | | | |
| 72 | 114.974 | 114.591 | 114.895 | 97.637 | 72 | 24 | 58 | 51 | | | |
| 73 | 114.977 | 114.608 | 114.903 | 97.676 | 73 | 32 | 34 | 25 | | | |
| 74 | 114.98 | 114.64 | 114.907 | 97.72 | 74 | 4 | 47 | 33 | | | |
| 75 | 114.984 | 114.658 | 114.917 | 97.754 | 75 | 6 | 33 | 15 | | | |
| 76 | 114.984 | 114.705 | 114.924 | 97.827 | 76 | 74 | 38 | 22 | | | |
| 77 | 114.984 | 114.728 | 114.93 | 97.856 | 77 | 16 | 35 | 57 | | | |
| 78 | 114.984 | 114.734 | 114.932 | 97.882 | 78 | 30 | 22 | 34 | | | |
| 79 | 114.984 | 114.755 | 114.936 | 97.904 | 79 | 15 | 18 | 32 | | | |
| 80 | 114.984 | 114.771 | 114.943 | 97.941 | 80 | 18 | 52 | 21 | | | |
| 81 | 114.986 | 114.799 | 114.949 | 97.991 | 81 | 29 | 36 | 37 | | | |
| 82 | 114.988 | 114.806 | 114.955 | 98.017 | 82 | 51 | 10 | 39 | | | |
| 83 | 114.988 | 114.821 | 114.961 | 98.075 | 83 | 28 | 108 | 50 | | | |
| 84 | 114.99 | 114.826 | 114.964 | 98.097 | 84 | 47 | 16 | 23 | | | |
| 85 | 114.99 | 114.833 | 114.966 | 98.145 | 85 | 23 | 46 | 38 | | | |
| 86 | 114.99 | 114.837 | 114.97 | 98.145 | 86 | 10 | 33 | 16 | | | |
| 87 | 114.99 | 114.847 | 114.972 | 98.189 | 87 | 19 | 59 | 24 | | | |
| 88 | 114.99 | 114.861 | 114.974 | 98.219 | 88 | 5 | 16 | 31 | | | |
| 89 | 114.99 | 114.863 | 114.974 | 98.226 | 89 | 24 | 90 | 31 | | | |
| 90 | 114.99 | 114.868 | 114.976 | 98.255 | 90 | 27 | 40 | 23 | | | |
| 91 | 114.99 | 114.881 | 114.976 | 98.349 | 91 | 21 | 93 | 102 | | | |
| 92 | 114.99 | 114.916 | 114.976 | 98.349 | 92 | 20 | 84 | 15 | | | |
| 93 | 114.992 | 114.916 | 114.976 | 98.422 | 93 | 23 | 23 | 28 | | | |
| 94 | 114.994 | 114.923 | 114.978 | 98.495 | 94 | 26 | 18 | 39 | | | |
| 95 | 114.994 | 114.941 | 114.978 | 98.531 | 95 | 28 | 30 | 22 | | | |
| 96 | 114.994 | 114.945 | 114.978 | 98.531 | 96 | 41 | 42 | 24 | | | |
| 97 | 114.994 | 114.949 | 114.978 | 98.567 | 97 | 23 | 51 | 24 | | | |

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|-----|---------|---------|---------|--------|
| 98 | 114.994 | 114.949 | 114.98 | 98.611 |
| 99 | 114.994 | 114.949 | 114.982 | 98.611 |
| 100 | 114.996 | 114.953 | 114.984 | 98.633 |
| 101 | 114.996 | 114.957 | 114.984 | 98.681 |
| 102 | 114.996 | 114.957 | 114.986 | 98.681 |
| 103 | 114.998 | 114.959 | 114.988 | 98.688 |
| 104 | 114.998 | 114.959 | 114.99 | 98.691 |
| 105 | 114.998 | 114.959 | 114.99 | 98.73 |
| 106 | 114.998 | 114.959 | 114.99 | 98.733 |
| 107 | 114.998 | 114.971 | 114.99 | 98.762 |
| 108 | 114.998 | 114.974 | 114.99 | 98.784 |
| 109 | 114.998 | 114.978 | 114.99 | 98.806 |
| 110 | 114.998 | 114.98 | 114.99 | 98.806 |
| 111 | 114.998 | 114.98 | 114.99 | 98.813 |
| 112 | 114.998 | 114.98 | 114.99 | 98.839 |
| 113 | 114.998 | 114.98 | 114.99 | 98.839 |
| 114 | 114.998 | 114.98 | 114.99 | 98.839 |
| 115 | 114.998 | 114.98 | 114.992 | 98.864 |
| 116 | 114.998 | 114.98 | 114.992 | 98.901 |
| 117 | 114.998 | 114.982 | 114.992 | 98.923 |
| 118 | 114.998 | 114.984 | 114.992 | 98.926 |
| 119 | 114.998 | 114.984 | 114.992 | 98.926 |
| 120 | 114.998 | 114.986 | 114.992 | 98.926 |
| 121 | 114.998 | 114.986 | 114.992 | 98.952 |
| 122 | 114.998 | 114.986 | 114.992 | 98.959 |
| 123 | 114.998 | 114.986 | 114.992 | 98.973 |
| 124 | 114.998 | 114.986 | 114.994 | 98.975 |
| 125 | 114.998 | 114.986 | 114.994 | 98.982 |
| 126 | 114.998 | 114.988 | 114.994 | 99.004 |
| 127 | 114.998 | 114.99 | 114.996 | 99.026 |
| 128 | 114.998 | 114.99 | 114.996 | 99.026 |
| 129 | 114.998 | 114.992 | 114.996 | 99.026 |
| 130 | 114.998 | 114.992 | 114.998 | 99.092 |
| 131 | 114.998 | 114.992 | 114.998 | 99.114 |
| 132 | 114.998 | 114.992 | 114.998 | 99.114 |
| 133 | 114.998 | 114.994 | 114.998 | 99.118 |
| 134 | 114.998 | 114.994 | 114.998 | 99.118 |
| 135 | 114.998 | 114.994 | 114.998 | 99.135 |
| 136 | 114.998 | 114.994 | 114.998 | 99.142 |
| 137 | 114.998 | 114.994 | 114.998 | 99.17 |
| 138 | 114.998 | 114.994 | 114.998 | 99.178 |
| 139 | 115 | 114.994 | 114.998 | 99.178 |
| 140 | 115 | 114.994 | 114.998 | 99.181 |
| 141 | 115 | 114.994 | 114.998 | 99.185 |
| 142 | 115 | 114.994 | 114.998 | 99.222 |
| 143 | 115 | 114.994 | 114.998 | 99.229 |
| 144 | 115 | 114.994 | 114.998 | 99.229 |
| 145 | 115 | 114.996 | 114.998 | 99.233 |
| 146 | 115 | 114.996 | 114.998 | 99.233 |
| 147 | 115 | 114.996 | 114.998 | 99.262 |
| 148 | 115 | 114.996 | 114.998 | 99.279 |
| 149 | 115 | 114.996 | 114.998 | 99.283 |
| 150 | 115 | 114.996 | 114.998 | 99.283 |
| 151 | 115 | 114.996 | 114.998 | 99.29 |
| 152 | 115 | 114.996 | 114.998 | 99.29 |
| 153 | 115 | 114.996 | 114.998 | 99.29 |
| 154 | 115 | 114.996 | 114.998 | 99.305 |
| 155 | 115 | 114.996 | 114.998 | 99.309 |
| 156 | 115 | 114.996 | 114.998 | 99.309 |
| 157 | 115 | 114.996 | 114.998 | 99.316 |
| 158 | 115 | 114.996 | 114.998 | 99.324 |
| 159 | 115 | 114.996 | 114.998 | 99.328 |
| 160 | 115 | 114.996 | 114.998 | 99.328 |
| 161 | 115 | 114.996 | 114.998 | 99.328 |
| 162 | 115 | 114.996 | 114.998 | 99.328 |
| 163 | 115 | 114.996 | 114.998 | 99.335 |
| 164 | 115 | 114.996 | 115 | 99.335 |
| 165 | 115 | 114.996 | 115 | 99.335 |
| 166 | 115 | 114.996 | 115 | 99.349 |
| 167 | 115 | 114.996 | 115 | 99.367 |
| 168 | 115 | 114.998 | 115 | 99.374 |
| 169 | 115 | 114.998 | 115 | 99.374 |
| 170 | 115 | 114.998 | 115 | 99.374 |
| 171 | 115 | 114.998 | 115 | 99.385 |
| 172 | 115 | 114.998 | 115 | 99.385 |
| 173 | 115 | 114.998 | 115 | 99.385 |
| 174 | 115 | 114.998 | 115 | 99.385 |
| 175 | 115 | 114.998 | 115 | 99.389 |
| 176 | 115 | 114.998 | 115 | 99.389 |
| 177 | 115 | 114.998 | 115 | 99.4 |
| 178 | 115 | 114.998 | 115 | 99.4 |
| 179 | 115 | 114.998 | 115 | 99.404 |
| 180 | 115 | 114.998 | 115 | 99.411 |
| 181 | 115 | 114.998 | 115 | 99.415 |
| 182 | 115 | 114.998 | 115 | 99.437 |
| 183 | 115 | 114.998 | 115 | 99.444 |
| 184 | 115 | 115 | 115 | 99.461 |
| 185 | 115 | 115 | 115 | 99.465 |
| 186 | 115 | 115 | 115 | 99.473 |
| 187 | 115 | 115 | 115 | 99.487 |
| 188 | 115 | 115 | 115 | 99.495 |
| 189 | 115 | 115 | 115 | 99.495 |
| 190 | 115 | 115 | 115 | 99.495 |
| 191 | 115 | 115 | 115 | 99.495 |
| 192 | 115 | 115 | 115 | 99.495 |
| 193 | 115 | 115 | 115 | 99.495 |
| 194 | 115 | 115 | 115 | 99.5 |
| 195 | 115 | 115 | 115 | 99.5 |
| 196 | 115 | 115 | 115 | 99.507 |
| 197 | 115 | 115 | 115 | 99.507 |
| 198 | 115 | 115 | 115 | 99.507 |
| 199 | 115 | 115 | 115 | 99.507 |
| 200 | 115 | 115 | 115 | 99.513 |

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|-----|----|-----|-----|
| 98 | 29 | 51 | 47 |
| 99 | 23 | 12 | 32 |
| 100 | 12 | 21 | 16 |
| 101 | 9 | 49 | 61 |
| 102 | 12 | 18 | 31 |
| 103 | 4 | 22 | 29 |
| 104 | 15 | 33 | 27 |
| 105 | 12 | 50 | 19 |
| 106 | 9 | 31 | 16 |
| 107 | 5 | 41 | 114 |
| 108 | 2 | 18 | 34 |
| 109 | 13 | 60 | 48 |
| 110 | 12 | 125 | 35 |
| 111 | 17 | 30 | 12 |
| 112 | 59 | 30 | 27 |
| 113 | 47 | 47 | 29 |
| 114 | 41 | 33 | 24 |
| 115 | 11 | 61 | 16 |
| 116 | 35 | 38 | 29 |
| 117 | 28 | 75 | 56 |
| 118 | 7 | 38 | 29 |
| 119 | 36 | 26 | 20 |
| 120 | 14 | 35 | 28 |
| 121 | 15 | 82 | 12 |
| 122 | 18 | 39 | 31 |
| 123 | 12 | 32 | 30 |
| 124 | 19 | 36 | 38 |
| 125 | 22 | 60 | 31 |
| 126 | 36 | 30 | 18 |
| 127 | 18 | 35 | 37 |
| 128 | 8 | 43 | 23 |
| 129 | 21 | 85 | 42 |
| 130 | 44 | 18 | 29 |
| 131 | 13 | 24 | 36 |
| 132 | 43 | 33 | 27 |
| 133 | 15 | 79 | 13 |
| 134 | 17 | 36 | 22 |
| 135 | 15 | 59 | 54 |
| 136 | 41 | 36 | 20 |
| 137 | 34 | 22 | 45 |
| 138 | 11 | 29 | 21 |
| 139 | 12 | 21 | 53 |
| 140 | 20 | 45 | 21 |
| 141 | 19 | 44 | 51 |
| 142 | 15 | 48 | 42 |
| 143 | 61 | 45 | 42 |
| 144 | 14 | 18 | 19 |
| 145 | 26 | 55 | 23 |
| 146 | 28 | 21 | 33 |
| 147 | 36 | 32 | 46 |
| 148 | 13 | 37 | 15 |
| 149 | 13 | 42 | 11 |
| 150 | 11 | 72 | 39 |
| 151 | 21 | 24 | 18 |
| 152 | 23 | 21 | 41 |
| 153 | 14 | 35 | 20 |
| 154 | 34 | 37 | 29 |
| 155 | 15 | 100 | 17 |
| 156 | 36 | 17 | 71 |
| 157 | 23 | 65 | 11 |
| 158 | 11 | 21 | 32 |
| 159 | 38 | 43 | 44 |
| 160 | 21 | 62 | 21 |
| 161 | 32 | 78 | 28 |
| 162 | 14 | 24 | 16 |
| 163 | 14 | 44 | 44 |
| 164 | 11 | 38 | 72 |
| 165 | 12 | 80 | 14 |
| 166 | 33 | 37 | 49 |
| 167 | 28 | 24 | 35 |
| 168 | 5 | 55 | 57 |
| 169 | 13 | 11 | 26 |
| 170 | 42 | 24 | 22 |
| 171 | 11 | 33 | 64 |
| 172 | 11 | 18 | 31 |
| 173 | 21 | 50 | 31 |
| 174 | 32 | 35 | 46 |
| 175 | 8 | 43 | 74 |
| 176 | 25 | 41 | 23 |
| 177 | 6 | 44 | 24 |
| 178 | 18 | 15 | 21 |
| 179 | 28 | 14 | 41 |
| 180 | 32 | 18 | 18 |
| 181 | 19 | 75 | 34 |
| 182 | 13 | 66 | 65 |
| 183 | 13 | 63 | 24 |
| 184 | 25 | 40 | 22 |
| 185 | 47 | 34 | 44 |
| 186 | 13 | 21 | 34 |
| 187 | 10 | 22 | 36 |
| 188 | 30 | 19 | 21 |
| 189 | 18 | 56 | 46 |
| 190 | 14 | 61 | 74 |
| 191 | 15 | 18 | 16 |
| 192 | 6 | 27 | 7 |
| 193 | 9 | 28 | 29 |
| 194 | 22 | 32 | 36 |
| 195 | 52 | 21 | 23 |
| 196 | 13 | 17 | 37 |
| 197 | 3 | 71 | 27 |
| 198 | 2 | 57 | 27 |
| 199 | 5 | 35 | 33 |
| 200 | 24 | 18 | 16 |
| 201 | 8 | 14 | 17 |



