MADA Course Project

Risk Factors Affecting Life Expectancy

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## 0.1 Load Required Packages

# 1. Abstract

Life expectancy is an important general metric in comparing countries health of their populations on the same scale, but the factors that lead affect it and numerous and nuanced.The goal is to create a model to better understand which risks are the most influential on life expectancy by combining two data sets containing information on life expectancy, demographics, and prevalent risk factors. Through analysis of data collected by the World Health Organization on the average life expectancy and most prevalent risk factors for death for each country over the years, I aim to draw initial associations that may be areas for further study or targets of public health measures. Through a surface level exploration of the data, the trends in life expectancy compared to other factors can be observed and then further examined with simple statistical analyses. After that point, machine learning models are employed to more accurately predict life expectancy from provided variables.

# 2. Introduction

## 2.1 General Background Information

With new unique risks arising to human health, along with older ones becoming less prevalent, the factors that tie in to life expectancy are changing over time. Broad vaccine coverage has virtually eliminated the presence of diseases like polio and measles in most developed countries and populations, while air pollution and poor nutrition/weight issues have become an increasing problem for many people(Goodson et al. 2017) (Yin et al. 2020). The risk exposures that have increased the most globally from 2010 to 2019 are ambient particulate matter pollution, drug use, high fasting plasma glucose, and high body-mass index while the ones that have decreased are household air pollution, unsafe water, sanitation and handwashing, child growth failure, tobacco smoking, and lead exposure (Murray et al. 2020). Although the leading risk factors resulting in death vary by age and location, the overall highest were high systolic blood pressure and and tobacco (Murray et al. 2020).

Many factors can play a part in life expectancy in different countries from availability of medical care and vaccines to mental health and happiness.Factors may differ in the weight of their effect depending on developmental status of the country as well, and some previous research has shown the more obvious variables like GDP or health expenditure may not always be as influential as one may assume in these cases (Kabir 2008). There have been attempts to create formulas to mathematically determine a population’s life expectancy based on risk factors within that population but each are so specific that its difficult to create an overall generalizable model. –Will be adding more soon–

## 2.2 Description of data and data source

I decided to analyze two data sets, one is a life expectancy data set collected by the World Health organization which I obtained at this link https://www.kaggle.com/datasets/kumarajarshi/life-expectancy-who from Kaggle. This data specifically looks at immunization rates and the human development index for each country along with their overall life expectancy from. The other data set is Worldwide Deaths by country and risk factor which was also downloaded from Kaggle at https://www.kaggle.com/datasets/varpit94/worldwide-deaths-by-risk-factors. This data is as the title states, with the number of deaths for different risk factors in countries by year. Some examples include unsafe water sources and hygiene, child wasting and thinness, lifestyle and behavioral factors, and pollution. The summary table of the risk factor data set (**table-1?**) and life expectancy data set (**table-2?**) can be seen in the exploratory and descriptive analysis section of the manuscript.

readRDS(file = "../../results/glimpserisk.rds")

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3216 1.337408e+01 1.305819e+01  
3217 1.390398e+03 5.276942e+00  
3218 1.284273e+03 4.182907e+00  
3219 1.165400e+03 3.780709e+00  
3220 1.108617e+03 3.439061e+00  
3221 1.061539e+03 3.700617e+00  
3222 1.017401e+03 3.497214e+00  
3223 9.272699e+02 3.415537e+00  
3224 8.672179e+02 3.561765e+00  
3225 8.495415e+02 4.040254e+00  
 Discontinued.breastfeeding Child.wasting Child.stunting  
1 2.351015e+02 3.432036e+04 1.640004e+04  
2 2.205293e+02 3.243051e+04 1.584894e+04  
3 2.079004e+02 3.051632e+04 1.502303e+04  
4 2.540241e+02 3.005387e+04 1.192507e+04  
5 2.620007e+02 2.956825e+04 1.077152e+04  
6 2.451407e+02 2.779972e+04 1.007703e+04  
7 2.169452e+02 2.623364e+04 9.646268e+03  
8 1.825241e+02 2.401281e+04 9.006126e+03  
9 1.467268e+02 2.179339e+04 8.738755e+03  
10 1.214030e+02 2.033393e+04 8.566992e+03  
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12 1.000969e+02 1.786774e+04 7.198098e+03  
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14 9.512184e+01 1.630828e+04 6.032637e+03  
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16 9.168913e+01 1.534489e+04 5.617862e+03  
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18 2.456992e-01 2.246609e+02 5.935311e+01  
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16 1.728175e+04 5.345590e+03 5.981357e+02 7.929551e+02  
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1180 4.532401e+01 3.078615e+02 2.636505e+03 6.522839e+02  
1181 4.205512e+01 3.058484e+02 2.570012e+03 6.493495e+02  
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1183 3.562995e+01 3.013883e+02 2.452850e+03 6.330478e+02  
1184 3.038871e+01 2.998695e+02 2.348098e+03 6.246006e+02  
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3222 1.319904e+04 1.817004e+04 2.258799e+04  
3223 1.327421e+04 1.745941e+04 2.267538e+04  
3224 1.354166e+04 1.771148e+04 2.300104e+04  
3225 1.372612e+04 1.799863e+04 2.364516e+04  
 Iron.deficiency Vitamin.A.deficiency Low.bone.mineral.density  
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4 1.347973e+03 9.718300e+03 3.951909e+02  
5 1.341175e+03 8.050537e+03 3.927996e+02  
6 1.386847e+03 7.456091e+03 3.967028e+02  
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8 1.334177e+03 6.972441e+03 3.923374e+02  
9 1.325676e+03 7.329675e+03 3.952948e+02  
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3222 3.976035e+00 1.970492e+00 7.188117e+02  
3223 4.008330e+00 1.847201e+00 7.151126e+02  
3224 3.825174e+00 1.879302e+00 7.320332e+02  
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 Air.pollution Outdoor.air.pollution Diet.high.in.sodium  
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3 3.205290e+04 5580.75 2.929457e+03  
4 3.422948e+04 6111.07 2.935116e+03  
5 3.446234e+04 6159.58 2.955082e+03  
6 3.360347e+04 6189.71 2.958574e+03  
7 3.275944e+04 6202.75 2.964410e+03  
8 3.114573e+04 6204.82 2.971582e+03  
9 2.969664e+04 6123.82 2.995321e+03  
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1592 1.133932e+04 11266.34 3.559263e+03  
1593 1.105744e+04 11002.32 3.464545e+03  
1594 1.081875e+04 10778.01 3.399274e+03  
1595 1.059764e+04 10569.04 3.379591e+03  
1596 1.015171e+04 10133.59 3.319371e+03  
1597 9.877219e+03 9874.06 3.284903e+03  
1598 9.671962e+03 9672.80 3.327750e+03  
1599 9.179062e+03 9179.77 3.287002e+03  
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1602 1.544326e+03 1508.32 9.982147e+02  
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1606 1.305301e+03 1286.09 9.209506e+02  
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1918 9.812529e+05 385714.87 1.190431e+05  
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2275 8.175682e+03 8232.35 3.510931e+03  
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1562 6.448763e+00 77 3 17.1 49 77  
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1567 3.712895e+01 61 62233 15.0 60 65  
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2249 7.821800e+02 93 0 56.2 12 95  
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2665 4.359523e+01 NA 0 33.6 1 9  
2666 0.000000e+00 98 16 61.2 3 98  
2667 6.048701e+02 98 15 6.2 3 98  
2668 5.946453e+02 98 16 59.3 3 98  
2669 5.858777e+02 97 48 58.3 3 97  
2670 6.232120e+02 98 11 57.4 3 98  
2671 6.485617e+01 98 1 56.5 3 98  
2672 5.856308e+02 99 1 55.6 3 99  
2673 5.308452e+01 99 2 54.7 3 99  
2674 4.696283e+02 98 4 53.9 4 98  
2675 4.201154e+02 99 3 53.1 4 99  
2676 3.795140e+02 97 15 52.2 4 98  
2677 3.797659e+02 96 1 51.4 4 97  
2678 3.217694e+02 92 22 5.6 4 95  
2679 2.628185e+02 93 98 49.7 5 96  
2680 2.572879e+02 94 231 48.9 5 98  
2681 2.647842e+02 94 47 48.1 5 97  
2682 0.000000e+00 97 342 66.1 18 97  
2683 1.819084e+02 96 565 65.3 19 96  
2684 1.881440e+02 97 7405 64.5 20 98  
2685 2.075120e+01 97 349 63.7 22 97  
2686 1.275878e+03 96 111 62.8 23 97  
2687 3.278236e+01 96 7 61.9 25 97  
2688 1.069483e+02 94 4 61.1 27 96  
2689 2.267272e+01 92 0 6.2 29 96  
2690 1.155801e+02 96 3 59.3 31 96  
2691 1.035238e+02 82 34 58.5 34 9  
2692 8.329552e+02 85 6200 57.6 36 9  
2693 1.132767e+00 77 8927 56.8 39 85  
2694 4.591113e+02 68 5844 55.9 43 69  
2695 3.555729e+01 72 7823 55.1 46 78  
2696 2.564342e+02 77 30509 54.3 50 88  
2697 4.212957e+02 71 16244 53.5 54 85  
2698 0.000000e+00 99 0 48.6 7 99  
2699 6.911334e+02 97 0 47.7 8 98  
2700 6.374811e+01 98 0 46.7 8 98  
2701 5.794128e+02 98 0 45.9 8 98  
2702 4.904181e+02 97 0 45.0 8 97  
2703 3.853252e+02 96 0 44.2 8 96  
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2705 3.423979e+01 96 0 42.7 8 96  
2706 3.586514e-01 98 59 42.0 8 98  
2707 2.927235e+01 98 48 41.3 8 98  
2708 2.198886e+00 99 0 4.7 8 99  
2709 1.861014e+02 96 1 4.0 8 98  
2710 1.796156e+02 97 1 39.4 8 66  
2711 1.303785e+02 96 11 38.7 8 99  
2712 1.061807e+02 NA 9 38.1 9 94  
2713 8.824363e+01 NA 113 37.5 9 98  
2714 7.828120e+01 9 0 79.3 0 9  
2715 0.000000e+00 78 478 18.5 93 82  
2716 1.416770e+01 78 314 18.1 97 82  
2717 9.076144e+01 78 7878 17.6 103 82  
2718 9.288698e+01 78 2027 17.2 109 82  
2719 9.449687e+01 82 3312 16.7 114 82  
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2721 8.704535e+01 79 1601 15.9 124 78  
2722 7.285024e+01 71 1319 15.6 130 69  
2723 6.002528e+00 73 3776 15.2 137 7  
2724 5.083901e+01 64 5736 14.8 145 62  
2725 4.452614e+01 64 22 14.5 155 59  
2726 3.660609e+01 62 141 14.2 164 58  
2727 4.426792e+00 44 29429 13.9 173 57  
2728 2.690898e+00 29 49871 13.6 181 57  
2729 2.697625e+01 NA 48543 13.3 187 56  
2730 2.259447e+01 NA 42554 13.0 191 55  
2731 0.000000e+00 22 105 61.3 5 51  
2732 5.663849e+00 22 0 6.7 5 45  
2733 5.242530e+01 46 0 6.1 5 72  
2734 4.537831e+02 46 12746 59.6 5 72  
2735 4.151628e+02 21 1333 59.0 5 54  
2736 3.756835e+02 48 39 58.5 6 57  
2737 3.245491e+02 66 0 58.0 6 74  
2738 4.564587e+02 84 48 57.6 6 91  
2739 4.619685e+01 92 1005 57.2 6 98  
2740 2.938173e+01 96 42724 56.8 6 99  
2741 2.174345e+02 97 2392 56.4 6 95  
2742 1.803538e+02 98 146 56.1 6 99  
2743 2.122386e+01 77 411 55.7 6 99  
2744 1.157390e+02 48 7587 55.4 7 99  
2745 8.897421e+00 7 16970 55.1 7 99  
2746 7.883791e+00 4 817 54.8 8 99  
2747 0.000000e+00 99 347 64.2 1 99  
2748 3.862683e+03 99 344 62.4 1 99  
2749 3.772009e+02 98 0 6.5 1 98  
2750 3.663765e+03 96 132 58.6 1 96  
2751 3.877750e+02 95 0 57.1 1 95  
2752 3.080661e+02 94 87 55.8 1 94  
2753 2.924023e+02 93 0 55.1 1 94  
2754 4.003909e+03 92 55 54.8 1 94  
2755 3.759457e+03 92 0 55.1 1 94  
2756 3.749942e+03 92 0 55.8 1 94  
2757 3.427320e+03 92 29 56.6 1 94  
2758 2.972449e+03 92 22 57.0 1 94  
2759 2.771818e+02 92 42 56.8 1 94  
2760 2.598843e+03 92 53 56.0 1 94  
2761 2.437539e+02 92 30 55.0 1 94  
2762 2.629590e+02 92 69 54.1 1 94  
2763 0.000000e+00 NA 91 66.6 4 96  
2764 0.000000e+00 NA 133 66.0 4 95  
2765 0.000000e+00 NA 1919 65.4 4 95  
2766 0.000000e+00 NA 2092 64.8 4 95  
2767 0.000000e+00 NA 1112 64.2 4 95  
2768 0.000000e+00 NA 443 63.6 4 94  
2769 0.000000e+00 NA 1212 63.1 4 93  
2770 0.000000e+00 NA 1445 62.5 4 92  
2771 0.000000e+00 NA 1022 61.9 4 92  
2772 0.000000e+00 NA 764 61.3 4 92  
2773 0.000000e+00 NA 79 6.7 4 91  
2774 0.000000e+00 NA 189 6.1 4 92  
2775 0.000000e+00 NA 460 59.5 4 91  
2776 0.000000e+00 NA 314 58.8 4 91  
2777 0.000000e+00 NA 73 58.2 4 91  
2778 0.000000e+00 NA 104 57.5 5 91  
2779 0.000000e+00 98 30 23.8 119 96  
2780 0.000000e+00 97 88 23.2 121 97  
2781 0.000000e+00 91 185 22.5 124 91  
2782 0.000000e+00 92 1668 21.9 126 9  
2783 0.000000e+00 9 1622 21.3 128 88  
2784 0.000000e+00 91 167 2.7 131 94  
2785 0.000000e+00 85 1574 2.2 135 88  
2786 0.000000e+00 86 3413 19.6 138 89  
2787 0.000000e+00 83 7726 19.1 141 88  
2788 0.000000e+00 9 2362 18.6 145 91  
2789 0.000000e+00 9 23 18.1 149 91  
2790 0.000000e+00 95 1419 17.7 154 95  
2791 0.000000e+00 95 1673 17.2 160 97  
2792 0.000000e+00 89 5131 16.8 166 91  
2793 0.000000e+00 NA 11847 16.4 173 65  
2794 0.000000e+00 NA 14649 16.0 181 64  
2795 0.000000e+00 92 188 69.6 26 93  
2796 0.000000e+00 92 667 69.1 27 93  
2797 0.000000e+00 91 187 68.6 27 93  
2798 0.000000e+00 9 55 68.0 28 93  
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2800 0.000000e+00 92 63 66.9 30 93  
2801 0.000000e+00 92 71 66.3 31 93  
2802 0.000000e+00 94 140 65.7 31 94  
2803 0.000000e+00 93 43 65.1 32 93  
2804 0.000000e+00 93 55 64.4 33 93  
2805 0.000000e+00 93 66 63.8 33 92  
2806 0.000000e+00 92 37 63.1 33 92  
2807 0.000000e+00 92 56 62.4 33 91  
2808 0.000000e+00 88 41 61.7 33 9  
2809 0.000000e+00 89 116 6.9 33 89  
2810 0.000000e+00 9 85 6.1 33 9  
2811 0.000000e+00 95 0 64.0 0 95  
2812 4.636398e+02 95 0 63.4 0 95  
2813 4.828039e+02 94 0 62.9 0 94  
2814 3.397190e+02 95 0 62.3 0 95  
2815 4.179117e+02 95 0 61.8 1 95  
2816 2.331533e+03 95 0 61.2 1 95  
2817 1.871737e+03 95 0 6.7 1 95  
2818 2.473142e+01 94 0 6.1 1 94  
2819 1.447306e+01 94 0 59.5 1 94  
2820 1.712226e+03 95 0 58.9 1 95  
2821 1.525448e+02 96 0 58.3 1 96  
2822 8.823564e+02 94 0 57.7 1 95  
2823 1.608400e+02 91 0 57.0 1 91  
2824 2.746881e+01 95 0 56.3 1 93  
2825 4.214804e+02 94 0 55.7 1 94  
2826 6.459584e+02 92 0 55.0 1 92  
2827 0.000000e+00 99 22 44.7 17 99  
2828 4.428024e-01 99 8 43.9 18 99  
2829 1.916247e+01 99 0 43.0 19 99  
2830 1.671406e+01 99 0 42.2 21 99  
2831 1.406905e+02 99 476 41.4 22 99  
2832 1.194571e+02 99 117 4.7 23 99  
2833 9.281480e+01 98 0 4.0 24 99  
2834 1.389021e+01 91 2 39.3 25 98  
2835 9.290984e+00 99 863 38.7 26 98  
2836 7.727092e+01 98 823 38.1 27 94  
2837 4.013342e+01 99 737 37.5 28 99  
2838 3.441887e+01 99 75 37.0 29 99  
2839 2.852136e+01 99 85 36.4 30 99  
2840 2.499439e+01 62 25 35.9 32 99  
2841 4.366386e+01 NA 22 35.3 34 99  
2842 4.850942e+01 NA 80 34.8 36 99  
2843 0.000000e+00 64 39 53.3 0 65  
2844 5.648167e+02 64 10 52.5 0 65  
2845 4.475456e+02 64 0 51.7 0 65  
2846 4.279885e+02 64 0 5.8 0 65  
2847 4.579732e+02 63 0 49.9 0 65  
2848 4.718627e+02 62 0 49.1 0 66  
2849 3.610941e+02 62 0 48.2 0 66  
2850 3.453391e+02 61 0 47.4 0 66  
2851 3.424909e+02 6 0 46.6 0 67  
2852 4.319781e+01 59 0 45.7 0 67  
2853 3.372943e+02 61 3 44.9 0 67  
2854 3.341673e+02 63 0 44.1 0 67  
2855 2.729839e+01 64 165 43.3 0 67  
2856 1.711374e+02 66 101 42.6 0 67  
2857 1.631053e+02 68 7 41.9 0 67  
2858 2.190075e+01 7 9 41.1 0 67  
2859 0.000000e+00 87 0 62.1 10 87  
2860 0.000000e+00 78 0 61.5 10 79  
2861 0.000000e+00 82 0 61.0 10 82  
2862 0.000000e+00 81 1 6.4 10 73  
2863 0.000000e+00 78 0 59.9 10 78  
2864 0.000000e+00 78 0 59.3 10 74  
2865 0.000000e+00 84 0 58.8 10 75  
2866 0.000000e+00 53 0 58.2 10 76  
2867 0.000000e+00 62 32 57.6 10 67  
2868 0.000000e+00 71 78 57.1 11 73  
2869 0.000000e+00 88 0 56.5 11 8  
2870 0.000000e+00 82 0 55.9 11 83  
2871 0.000000e+00 72 0 55.3 12 86  
2872 0.000000e+00 6 2392 54.7 12 81  
2873 0.000000e+00 53 115 54.1 12 87  
2874 0.000000e+00 5 22 53.4 13 86  
2875 0.000000e+00 97 256 17.5 35 97  
2876 0.000000e+00 95 15033 16.7 35 96  
2877 0.000000e+00 59 1123 16.0 35 93  
2878 0.000000e+00 97 578 15.3 36 97  
2879 0.000000e+00 95 750 14.7 36 96  
2880 0.000000e+00 88 2809 14.0 35 94  
2881 0.000000e+00 94 6582 13.4 35 97  
2882 0.000000e+00 87 352 12.9 35 93  
2883 0.000000e+00 67 17 12.3 35 92  
2884 0.000000e+00 93 1978 11.8 35 94  
2885 0.000000e+00 94 410 11.3 36 94  
2886 0.000000e+00 94 217 1.9 36 96  
2887 0.000000e+00 78 2297 1.4 37 96  
2888 0.000000e+00 NA 6755 1.0 39 92  
2889 0.000000e+00 NA 12058 9.6 41 96  
2890 0.000000e+00 NA 16512 9.2 43 96  
2891 0.000000e+00 69 468 41.3 47 63  
2892 0.000000e+00 73 815 4.4 47 67  
2893 0.000000e+00 73 400 39.6 46 67  
2894 0.000000e+00 67 2177 38.7 46 68  
2895 0.000000e+00 69 2676 37.9 45 69  
2896 0.000000e+00 76 510 37.2 45 77  
2897 0.000000e+00 76 130 36.4 46 76  
2898 0.000000e+00 78 7 35.7 47 78  
2899 0.000000e+00 79 13 35.1 49 79  
2900 0.000000e+00 78 8079 34.5 51 78  
2901 0.000000e+00 8 6285 33.9 53 8  
2902 0.000000e+00 43 12708 33.3 56 72  
2903 0.000000e+00 38 8536 32.7 58 61  
2904 0.000000e+00 31 890 32.2 61 64  
2905 0.000000e+00 19 485 31.7 63 73  
2906 0.000000e+00 14 0 31.2 66 74  
2907 0.000000e+00 9 9 23.4 40 9  
2908 1.966676e+02 86 9 22.8 41 78  
2909 2.062306e+01 79 35 22.3 42 74  
2910 1.969152e+02 78 896 21.7 43 7  
2911 1.830462e+02 81 13234 21.2 44 83  
2912 1.843649e+02 83 15754 2.7 45 8  
2913 1.438699e+02 94 26 2.2 47 93  
2914 1.536784e+02 87 140 19.7 49 9  
2915 1.085148e+01 8 535 19.2 51 77  
2916 1.860004e+00 81 459 18.8 52 83  
2917 1.218793e+02 82 45 18.4 55 84  
2918 8.369852e+00 NA 35 18.0 59 84  
2919 6.578997e+01 NA 881 17.6 62 85  
2920 5.404348e+01 NA 25036 17.3 66 85  
2921 4.683027e+01 NA 16997 17.1 70 86  
2922 4.561688e+01 NA 30930 16.8 72 85  
2923 0.000000e+00 87 0 31.8 32 88  
2924 1.082260e+01 91 0 31.3 34 92  
2925 1.066671e+01 95 0 3.8 36 95  
2926 9.260234e+01 97 0 3.3 39 95  
2927 6.375053e+01 94 0 29.9 42 93  
2928 5.330858e+01 9 9696 29.4 44 89  
2929 1.040021e+00 73 853 29.0 45 69  
2930 2.084343e+01 75 0 28.6 46 75  
2931 2.981457e+01 72 242 28.2 46 73  
2932 3.426217e+01 68 212 27.9 45 71  
2933 8.717409e+00 65 420 27.5 43 69  
2934 0.000000e+00 68 31 27.1 42 67  
2935 0.000000e+00 7 998 26.7 41 7  
2936 0.000000e+00 73 304 26.3 40 73  
2937 0.000000e+00 76 529 25.9 39 76  
2938 0.000000e+00 79 1483 25.5 39 78  
 Total.expenditure Diphtheria HIV.AIDS GDP Population  
1 8.16 65 0.1 5.842592e+02 3.373649e+07  
2 8.18 62 0.1 6.126965e+02 3.275820e+05  
3 8.13 64 0.1 6.317450e+02 3.173169e+07  
4 8.52 67 0.1 6.699590e+02 3.696958e+06  
5 7.87 68 0.1 6.353723e+01 2.978599e+06  
6 9.20 66 0.1 5.533289e+02 2.883167e+06  
7 9.42 63 0.1 4.458933e+02 2.843310e+05  
8 8.33 64 0.1 3.733611e+02 2.729431e+06  
9 6.73 63 0.1 3.698358e+02 2.661679e+07  
10 7.43 58 0.1 2.725638e+02 2.589345e+06  
11 8.70 58 0.1 2.529413e+01 2.577980e+05  
12 8.79 5 0.1 2.191414e+02 2.411898e+07  
13 8.82 41 0.1 1.987285e+02 2.364851e+06  
14 7.76 36 0.1 1.878459e+02 2.197992e+07  
15 7.80 33 0.1 1.174970e+02 2.966463e+06  
16 8.20 24 0.1 1.145600e+02 2.937560e+05  
17 6.00 99 0.1 3.954228e+03 2.887300e+04  
18 5.88 98 0.1 4.575764e+03 2.889140e+05  
19 5.66 99 0.1 4.414723e+03 2.895920e+05  
20 5.59 99 0.1 4.247614e+03 2.941000e+03  
21 5.71 99 0.1 4.437179e+03 2.951950e+05  
22 5.34 99 0.1 4.943588e+02 2.913210e+05  
23 5.79 98 0.1 4.114137e+03 2.927519e+06  
24 5.87 99 0.1 4.375396e+02 2.947314e+06  
25 6.10 98 0.1 3.631368e+02 2.971700e+04  
26 5.86 97 0.1 3.512930e+01 2.992547e+06  
27 6.12 98 0.1 2.791429e+02 3.114870e+05  
28 6.38 97 0.1 2.416588e+03 3.269390e+05  
29 6.27 97 0.1 1.896816e+02 3.396160e+05  
30 6.30 98 0.1 1.453643e+03 3.511000e+03  
31 6.00 97 0.1 1.326973e+03 3.617300e+04  
32 6.26 97 0.1 1.175789e+03 3.892700e+04  
33 NA 95 0.1 4.132763e+03 3.987153e+07  
34 7.21 95 0.1 5.478517e+02 3.911331e+07  
35 7.12 95 0.1 5.471867e+03 3.833856e+07  
36 6.14 95 0.1 5.564826e+03 3.756585e+07  
37 5.29 95 0.1 5.432252e+03 3.681956e+07  
38 5.12 95 0.1 4.463395e+03 3.611764e+07  
39 5.36 95 0.1 3.868831e+03 3.546576e+06  
40 4.20 93 0.1 4.952549e+02 3.486715e+06  
41 3.82 95 0.1 3.935183e+03 3.437600e+04  
42 3.36 95 0.1 3.464618e+03 3.377792e+07  
43 3.24 88 0.1 3.112238e+01 3.328844e+07  
44 3.54 86 0.1 2.598982e+03 3.283196e+06  
45 3.60 87 0.1 2.943356e+02 3.243514e+06  
46 3.73 86 0.1 1.774337e+03 3.199546e+06  
47 3.84 89 0.1 1.732858e+03 3.159215e+07  
48 3.49 86 0.1 1.757178e+03 3.118366e+06  
49 NA 64 1.9 3.695794e+03 2.785935e+06  
50 3.31 64 2.0 4.793122e+02 2.692466e+06  
51 4.26 77 2.3 4.846169e+02 2.599834e+06  
52 3.30 75 2.6 4.598250e+03 2.596150e+05  
53 3.38 71 2.5 4.299129e+03 2.421856e+07  
54 3.39 77 2.5 3.529535e+03 2.336913e+07  
55 4.37 6 2.5 3.347845e+03 2.254955e+07  
56 3.84 69 2.6 3.868579e+03 2.175942e+06  
57 3.38 73 2.6 2.878837e+03 2.997687e+06  
58 4.54 34 2.5 2.624151e+02 2.262399e+06  
59 4.10 38 2.6 1.443992e+03 1.955254e+07  
60 4.71 4 2.5 1.418684e+02 1.886572e+07  
61 4.41 4 2.4 7.794684e+02 1.823369e+06  
62 3.63 41 2.3 7.111817e+02 1.757265e+07  
63 5.38 38 2.1 5.261687e+02 1.698327e+07  
64 2.79 28 2.0 5.552969e+02 1.644924e+06  
65 NA 99 0.2 1.356695e+04 NA  
66 5.54 99 0.2 1.288830e+04 NA  
67 5.33 99 0.2 1.222486e+04 NA  
68 5.39 98 0.2 1.256544e+04 NA  
69 5.65 99 0.1 1.192935e+04 NA  
70 5.63 98 0.1 1.212688e+04 NA  
71 4.86 99 0.1 1.312467e+03 NA  
72 4.69 99 0.1 1.473319e+03 NA  
73 4.27 99 0.1 1.425229e+04 NA  
74 4.34 99 0.1 1.272439e+04 NA  
75 4.41 99 0.1 1.137194e+04 NA  
76 4.21 97 0.1 1.352837e+03 NA  
77 4.53 99 0.1 9.739826e+03 NA  
78 4.41 98 0.1 9.386716e+03 NA  
79 4.48 97 0.1 9.358154e+03 NA  
80 4.13 95 0.1 9.875162e+03 NA  
81 NA 94 0.1 1.346712e+04 4.341776e+07  
82 4.79 94 0.1 1.224526e+04 4.298152e+07  
83 4.99 94 0.1 1.297664e+04 4.253992e+07  
84 5.20 91 0.1 1.296977e+04 4.296739e+06  
85 5.89 91 0.1 1.272698e+04 4.165688e+07  
86 6.55 94 0.1 1.276265e+03 4.122389e+07  
87 7.63 94 0.1 8.161370e+03 4.799470e+05  
88 6.66 93 0.1 8.953359e+03 4.382389e+06  
89 6.49 91 0.1 7.193618e+03 3.997224e+06  
90 6.68 91 0.1 5.878761e+03 3.955889e+06  
91 6.85 98 0.1 5.768838e+02 3.914549e+07  
92 6.84 98 0.1 4.251574e+03 3.872870e+07  
93 8.22 96 0.1 3.334376e+02 3.839379e+06  
94 8.31 93 0.1 2.579193e+03 3.788937e+06  
95 9.38 83 0.1 7.176947e+02 3.747159e+06  
96 9.21 83 0.1 7.669274e+03 3.757452e+06  
97 NA 94 0.1 3.696548e+02 2.916950e+05  
98 4.48 93 0.1 3.994712e+03 2.962200e+04  
99 4.55 95 0.1 3.843591e+03 2.893590e+05  
100 4.48 95 0.1 3.684848e+03 2.881922e+06  
101 3.71 95 0.1 3.526978e+03 2.875581e+06  
102 4.56 94 0.1 3.218382e+03 2.877311e+06  
103 4.55 93 0.1 2.993833e+03 2.888584e+06  
104 3.80 89 0.1 4.126997e+01 2.982200e+04  
105 4.31 88 0.1 3.138887e+03 2.933560e+05  
106 4.58 87 0.1 2.158299e+03 2.958500e+04  
107 5.25 9 0.1 1.643758e+03 2.981259e+06  
108 5.50 91 0.1 1.191962e+03 3.612000e+03  
109 5.56 94 0.1 9.316616e+01 3.178600e+04  
110 5.40 94 0.1 7.832617e+02 3.338970e+05  
111 5.94 94 0.1 6.944351e+02 3.565500e+04  
112 6.25 93 0.1 6.227427e+02 3.695880e+05  
113 NA 93 0.1 5.655439e+04 2.378934e+07  
114 9.42 92 0.1 6.221469e+04 2.346694e+06  
115 9.36 91 0.1 6.779234e+04 2.311735e+07  
116 9.36 92 0.1 6.767763e+04 2.272825e+07  
117 9.20 92 0.1 6.224513e+04 2.234240e+05  
118 9.20 92 0.1 5.187485e+04 2.231750e+05  
119 9.50 92 0.1 4.274300e+04 2.169170e+05  
120 8.78 92 0.1 4.966469e+04 2.124920e+05  
121 8.53 92 0.1 4.991983e+03 2.827600e+04  
122 8.49 92 0.1 3.611828e+04 2.697900e+04  
123 8.45 92 0.1 3.416715e+03 2.394800e+04  
124 8.57 92 0.1 3.472380e+03 2.127400e+04  
125 8.32 93 0.1 2.346539e+04 1.989540e+05  
126 8.39 92 0.1 2.818176e+02 1.965140e+05  
127 8.18 92 0.1 1.951784e+04 1.941300e+04  
128 8.80 9 0.1 2.169921e+03 1.915300e+04  
129 NA 93 0.1 4.366595e+04 8.633169e+06  
130 11.21 98 0.1 5.132264e+04 8.541575e+06  
131 11.14 95 0.1 5.547153e+02 8.479375e+06  
132 11.17 92 0.1 4.833357e+04 8.429991e+06  
133 1.94 89 0.1 5.112674e+04 8.391643e+06  
134 11.17 86 0.1 4.665763e+04 8.363440e+05  
135 11.19 83 0.1 4.765419e+04 8.343323e+06  
136 1.60 83 0.1 5.138638e+04 8.321496e+06  
137 1.40 85 0.1 4.658665e+04 8.295487e+06  
138 1.35 83 0.1 4.439936e+02 8.268641e+06  
139 1.53 86 0.1 3.824243e+04 8.227829e+06  
140 1.56 83 0.1 3.669343e+04 8.171966e+06  
141 1.48 84 0.1 3.212936e+03 8.121423e+06  
142 1.27 83 0.1 2.635138e+04 8.819570e+05  
143 1.12 84 0.1 2.448974e+04 8.422930e+05  
144 1.60 81 0.1 2.451727e+04 8.115660e+05  
145 NA 96 0.1 5.531382e+01 9.649341e+06  
146 6.40 94 0.1 7.891300e+03 9.535790e+05  
147 5.54 93 0.1 7.875757e+03 9.416810e+05  
148 5.37 89 0.1 7.496336e+03 9.295784e+06  
149 5.10 87 0.1 7.189691e+03 9.173820e+05  
150 5.33 81 0.1 5.842858e+03 9.543320e+05  
151 5.85 81 0.1 4.952948e+02 8.947243e+06  
152 4.37 81 0.1 5.574638e+03 8.763400e+04  
153 5.10 79 0.1 3.851438e+03 8.581300e+04  
154 6.17 78 0.1 2.473858e+03 8.484550e+05  
155 7.86 75 0.1 1.578424e+03 8.391850e+05  
156 7.92 77 0.1 1.452163e+02 8.365000e+03  
157 6.56 77 0.1 8.836440e+02 8.234100e+04  
158 4.47 76 0.1 7.637386e+02 8.171950e+05  
159 4.48 77 0.1 7.368384e+01 8.111200e+04  
160 4.67 76 0.1 6.559743e+02 8.486000e+03  
161 NA 95 0.1 NA NA  
162 7.74 96 0.1 NA NA  
163 7.50 97 0.1 NA NA  
164 7.43 98 0.2 NA NA  
165 7.63 98 0.1 NA NA  
166 7.44 99 0.2 NA NA  
167 7.43 96 0.1 NA NA  
168 7.30 93 0.1 NA NA  
169 7.80 95 0.1 NA NA  
170 6.93 95 0.1 NA NA  
171 5.95 93 0.1 NA NA  
172 6.20 93 0.1 NA NA  
173 5.62 92 0.1 NA NA  
174 5.26 94 0.1 NA NA  
175 5.15 99 0.2 NA NA  
176 5.21 99 0.1 NA NA  
177 NA 98 0.1 2.268888e+04 NA  
178 4.98 98 0.1 2.498338e+04 NA  
179 4.69 99 0.1 2.511833e+02 NA  
180 4.37 99 0.1 2.364937e+04 NA  
181 3.40 99 0.1 2.281124e+03 NA  
182 3.64 99 0.1 2.722139e+03 NA  
183 3.79 98 0.1 1.935667e+04 NA  
184 3.17 97 0.1 2.367565e+03 NA  
185 3.80 97 0.1 2.977115e+03 NA  
186 3.80 98 0.1 1.937995e+03 NA  
187 3.16 98 0.1 1.795918e+04 NA  
188 3.37 98 0.1 1.584648e+04 NA  
189 3.74 97 0.1 1.422199e+04 NA  
190 3.89 98 0.1 1.312335e+03 NA  
191 3.80 99 0.1 1.286821e+04 NA  
192 3.51 97 0.1 1.363635e+04 NA  
193 NA 97 0.1 1.211581e+02 1.612886e+06  
194 2.82 97 0.1 1.845654e+02 1.594528e+07  
195 2.88 96 0.1 9.518895e+02 1.575713e+08  
196 3.80 94 0.1 8.563429e+02 1.557275e+07  
197 3.16 96 0.1 8.357893e+02 1.539119e+08  
198 3.60 94 0.1 7.576718e+02 1.521491e+07  
199 2.91 97 0.1 6.811254e+02 1.545478e+06  
200 2.85 96 0.1 6.157775e+02 1.488581e+07  
201 2.80 94 0.1 5.416515e+02 1.471392e+08  
202 2.80 94 0.1 4.945147e+02 1.453684e+06  
203 2.68 93 0.1 4.841555e+02 1.434311e+07  
204 2.62 99 0.1 4.675792e+01 1.413749e+07  
205 2.51 87 0.1 4.327389e+02 1.391910e+05  
206 2.59 83 0.1 4.613575e+00 1.366667e+06  
207 2.47 85 0.1 4.259812e+01 1.341716e+06  
208 2.33 82 0.1 4.563371e+01 1.315812e+08  
209 NA 97 0.1 1.555784e+04 NA  
210 7.47 94 0.1 1.535967e+04 NA  
211 7.57 91 0.1 1.547278e+04 NA  
212 7.43 87 0.1 1.538487e+04 NA  
213 6.67 91 0.1 1.553416e+04 NA  
214 6.17 86 0.1 1.595912e+03 NA  
215 6.21 93 0.1 1.652332e+04 NA  
216 6.10 85 0.1 1.657323e+03 NA  
217 5.64 93 0.1 1.646249e+04 NA  
218 5.27 84 0.1 1.564656e+04 NA  
219 5.38 92 0.1 1.422387e+04 NA  
220 5.71 93 0.2 1.286886e+04 NA  
221 5.82 89 0.4 1.228545e+03 NA  
222 5.76 87 0.8 1.167539e+04 NA  
223 5.47 84 0.7 1.151387e+04 NA  
224 5.16 93 0.9 1.156811e+04 NA  
225 NA 99 0.1 5.949117e+03 9.489616e+06  
226 5.69 97 0.1 8.318429e+03 9.474511e+06  
227 6.70 98 0.1 7.978825e+03 9.465997e+06  
228 5.10 98 0.1 6.942439e+02 9.464495e+06  
229 4.92 98 0.1 6.519718e+03 9.473172e+06  
230 5.55 98 0.1 6.338877e+01 9.495830e+05  
231 6.90 96 0.1 5.176173e+03 9.567650e+05  
232 5.95 97 0.1 6.376183e+03 9.527985e+06  
233 6.44 95 0.1 4.735485e+03 9.569530e+05  
234 6.34 99 0.1 3.848216e+03 9.649240e+05  
235 6.89 99 0.1 3.126718e+03 9.663915e+06  
236 6.59 99 0.1 2.378339e+03 9.731460e+05  
237 6.59 5 0.1 1.819526e+03 9.796749e+06  
238 6.47 99 0.1 1.479383e+03 9.865548e+06  
239 6.62 99 0.1 1.244373e+03 9.928549e+06  
240 6.13 99 0.1 1.276288e+03 9.979610e+05  
241 NA 99 0.1 4.356875e+03 1.127420e+07  
242 1.59 99 0.1 4.743940e+04 1.129570e+05  
243 1.57 99 0.1 4.651386e+03 1.118282e+07  
244 1.54 99 0.1 4.474572e+03 1.112825e+07  
245 1.42 98 0.1 4.772774e+03 1.147744e+06  
246 1.17 98 0.1 4.438237e+03 1.895586e+06  
247 1.39 98 0.1 4.488561e+03 1.796493e+06  
248 9.60 99 0.1 4.842459e+04 1.799730e+05  
249 9.25 98 0.1 4.443831e+03 1.625700e+04  
250 9.17 98 0.1 3.885236e+04 1.547958e+06  
251 9.24 97 0.1 3.696728e+04 1.478617e+06  
252 9.32 95 0.1 3.558971e+04 1.421137e+06  
253 9.30 95 0.1 3.743957e+03 1.376133e+06  
254 8.46 95 0.1 2.552333e+03 1.332785e+06  
255 8.29 95 0.1 2.312157e+04 1.286570e+05  
256 8.12 95 0.1 2.327459e+03 1.251250e+05  
257 NA 94 0.2 4.849997e+03 3.592880e+05  
258 5.79 95 0.2 4.852224e+03 3.516940e+05  
259 5.79 95 0.2 4.688538e+03 3.441810e+05  
260 5.45 98 0.1 4.673638e+03 3.367100e+04  
261 5.61 95 0.5 4.516247e+03 3.291920e+05  
262 5.85 96 0.2 4.344152e+03 3.216800e+04  
263 5.81 97 0.3 4.258789e+03 3.139290e+05  
264 5.90 94 0.1 4.472280e+02 3.616500e+04  
265 4.76 96 0.6 4.324876e+03 2.984700e+04  
266 4.40 98 0.6 4.187378e+03 2.974700e+04  
267 4.45 96 0.8 3.933332e+03 2.832770e+05  
268 4.39 97 0.8 3.831538e+03 2.768900e+04  
269 4.53 96 1.5 3.679995e+03 2.691300e+04  
270 4.38 89 0.1 3.556562e+03 2.622600e+04  
271 4.50 96 0.4 3.419276e+03 2.549840e+05  
272 3.98 91 0.3 3.364424e+03 2.473150e+05  
273 NA 82 1.0 7.839479e+02 1.575952e+06  
274 4.59 78 1.1 9.436866e+02 1.286712e+06  
275 4.59 77 1.2 9.152675e+02 1.445100e+04  
276 4.86 8 1.3 8.379551e+02 9.729160e+05  
277 5.37 75 1.4 8.259428e+02 9.468200e+04  
278 4.95 76 1.4 7.576960e+02 9.199259e+06  
279 4.46 79 1.6 7.934524e+02 8.944760e+05  
280 4.20 75 1.8 8.215135e+01 8.696916e+06  
281 4.55 82 2.0 7.653542e+01 8.454791e+06  
282 4.75 74 2.0 6.258392e+02 8.216896e+06  
283 4.73 7 2.1 6.179998e+01 7.982225e+06  
284 4.56 72 2.1 5.834935e+02 7.754000e+03  
285 4.63 73 2.1 5.192923e+02 7.525550e+05  
286 4.27 75 2.1 4.186986e+02 7.295394e+06  
287 4.69 76 2.1 3.787365e+02 7.767330e+05  
288 4.34 78 2.0 3.741924e+02 6.865951e+06  
289 NA 99 0.5 2.613645e+03 7.873860e+05  
290 3.57 99 0.5 2.522797e+03 7.764480e+05  
291 3.83 97 0.6 2.358829e+02 7.649610e+05  
292 3.70 97 0.6 2.422816e+03 7.529670e+05  
293 4.73 95 0.5 2.458460e+03 7.451000e+03  
294 5.17 91 0.5 2.178921e+03 7.276410e+05  
295 6.30 93 0.4 1.772345e+02 7.144580e+05  
296 6.58 96 0.4 1.795181e+03 7.950000e+02  
297 5.88 95 0.3 1.741143e+03 6.869580e+05  
298 5.27 95 0.3 1.335457e+03 6.722280e+05  
299 5.28 95 0.3 1.247614e+03 6.566390e+05  
300 4.41 89 0.3 1.974579e+02 6.428200e+04  
301 4.90 95 0.2 9.977417e+02 6.234340e+05  
302 7.75 86 0.1 8.856382e+02 6.639900e+04  
303 5.91 88 0.1 8.793877e+01 5.896000e+03  
304 6.91 92 0.1 7.658632e+02 5.734160e+05  
305 NA 99 0.1 NA NA  
306 6.33 98 0.1 NA NA  
307 5.96 94 0.1 NA NA  
308 5.56 93 0.1 NA NA  
309 5.49 95 0.2 NA NA  
310 5.44 91 0.2 NA NA  
311 5.76 93 0.2 NA NA  
312 5.00 88 0.2 NA NA  
313 4.96 84 0.2 NA NA  
314 5.19 83 0.2 NA NA  
315 5.67 85 0.2 NA NA  
316 5.22 84 0.2 NA NA  
317 5.30 88 0.2 NA NA  
318 6.53 77 0.1 NA NA  
319 6.31 71 0.1 NA NA  
320 5.67 75 0.1 NA NA  
321 NA 82 0.1 4.574979e+03 3.535961e+06  
322 9.57 86 0.1 5.193949e+03 3.566200e+04  
323 9.46 89 0.1 5.358655e+02 3.649990e+05  
324 9.94 92 0.1 4.716673e+03 3.648200e+04  
325 9.71 88 0.1 5.515683e+01 3.688865e+06  
326 9.58 89 0.1 4.611473e+03 3.722840e+05  
327 9.64 9 0.1 4.697897e+03 3.746561e+06  
328 8.58 91 0.1 5.753166e+02 3.763599e+06  
329 8.37 95 0.1 4.182922e+02 3.774000e+03  
330 8.28 87 0.1 3.443217e+02 3.779468e+06  
331 8.50 93 0.1 2.968412e+03 3.781530e+05  
332 9.40 84 0.1 2.656427e+02 3.781287e+06  
333 7.94 87 0.1 2.214732e+03 3.779247e+06  
334 7.10 8 0.1 1.761538e+03 3.775870e+05  
335 7.16 91 0.1 1.524412e+03 3.771284e+06  
336 7.90 85 0.1 1.461755e+03 3.766760e+05  
337 NA 95 2.2 6.532651e+03 2.291970e+05  
338 5.41 95 2.3 7.497762e+03 2.168573e+06  
339 5.84 95 2.8 7.762578e+01 2.128570e+05  
340 6.27 95 4.4 7.292315e+02 2.893150e+05  
341 5.25 95 5.5 7.645215e+03 2.513390e+05  
342 5.64 95 6.2 6.346156e+03 2.148660e+05  
343 6.39 96 9.0 5.185730e+03 1.979882e+06  
344 5.55 96 12.7 5.623380e+03 1.946351e+06  
345 4.71 96 13.4 5.714479e+03 1.914414e+06  
346 4.93 96 14.4 5.374555e+03 1.884238e+06  
347 5.62 96 20.6 5.351254e+03 1.855852e+06  
348 5.56 96 28.4 4.896584e+03 1.829330e+05  
349 4.65 96 31.9 4.163660e+03 1.843390e+05  
350 6.47 97 34.6 3.556184e+02 1.779953e+06  
351 5.73 97 37.2 3.128978e+03 1.754935e+06  
352 4.64 97 38.8 3.349688e+03 1.728340e+05  
353 NA 96 0.1 8.757262e+03 2.596218e+06  
354 8.32 93 0.1 1.226617e+03 2.421313e+07  
355 8.48 97 0.1 1.221694e+04 2.248632e+06  
356 8.26 95 0.1 1.229147e+04 2.569830e+05  
357 8.90 99 0.1 1.316747e+04 1.986867e+08  
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360 8.24 99 0.1 8.787614e+03 1.929793e+07  
361 8.28 99 0.1 7.313558e+03 1.912664e+07  
362 8.36 99 0.1 5.861460e+02 1.891241e+07  
363 8.27 99 0.1 4.771827e+02 1.869174e+08  
364 7.70 99 0.1 3.623477e+03 1.847385e+08  
365 6.94 99 0.1 3.595876e+02 1.824821e+08  
366 7.13 99 0.1 2.819650e+03 1.815121e+06  
367 7.19 98 0.1 3.146952e+03 1.777567e+06  
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370 2.65 99 0.1 4.159865e+03 NA  
371 2.61 99 0.1 4.459728e+04 NA  
372 2.30 99 0.1 4.765126e+04 NA  
373 2.25 97 0.1 4.717273e+03 NA  
374 2.73 95 0.1 3.526811e+04 NA  
375 2.85 99 0.1 2.796548e+04 NA  
376 2.23 98 0.1 3.795129e+04 NA  
377 2.32 99 0.1 3.267237e+04 NA  
378 2.24 97 0.1 3.989669e+02 NA  
379 2.62 94 0.1 2.612133e+03 NA  
380 3.10 92 0.1 2.189665e+04 NA  
381 3.90 92 0.1 1.855557e+04 NA  
382 3.40 94 0.1 1.684622e+04 NA  
383 3.60 97 0.1 1.646813e+04 NA  
384 3.50 99 0.1 1.884483e+02 NA  
385 NA 91 0.1 6.993477e+03 7.177991e+06  
386 8.44 88 0.1 7.853335e+03 7.223938e+06  
387 7.93 95 0.1 7.674866e+03 7.265115e+06  
388 7.11 95 0.1 7.378255e+03 7.358880e+05  
389 6.88 95 0.1 7.813835e+03 7.348328e+06  
390 7.24 94 0.1 6.843263e+03 7.395599e+06  
391 6.78 94 0.1 6.955988e+03 7.444443e+06  
392 6.61 95 0.1 7.296122e+03 7.492561e+06  
393 6.41 95 0.1 5.932900e+03 7.545338e+06  
394 6.67 95 0.1 4.513136e+03 7.612200e+04  
395 7.80 96 0.1 3.893690e+03 7.658972e+06  
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397 7.43 96 0.1 2.714682e+02 7.775327e+06  
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403 5.91 88 0.7 6.994528e+02 1.772723e+06  
404 5.33 9 0.8 6.738227e+02 1.657122e+07  
405 5.17 91 0.9 6.668428e+02 1.681940e+05  
406 7.17 91 1.0 5.754465e+02 1.565217e+06  
407 7.41 92 1.1 5.527456e+02 1.514199e+06  
408 6.77 93 1.5 5.697613e+02 1.468973e+07  
409 6.63 89 1.7 4.751112e+02 1.425221e+06  
410 6.58 86 2.0 4.226332e+02 1.382918e+07  
411 6.87 82 2.3 4.699887e+01 1.342193e+06  
412 6.45 79 2.5 3.713239e+02 1.335690e+05  
413 5.61 79 2.9 3.323444e+02 1.265462e+07  
414 5.26 69 3.2 2.676354e+01 1.229310e+05  
415 4.85 62 3.6 2.354912e+02 1.194459e+07  
416 5.60 45 4.0 2.264760e+02 1.167942e+06  
417 NA 94 0.7 3.368122e+01 1.199270e+05  
418 7.54 95 0.7 3.127490e+02 9.891790e+05  
419 8.30 96 1.0 2.827555e+02 9.618600e+04  
420 8.21 96 1.2 2.652857e+02 9.319710e+05  
421 8.58 96 1.5 2.647997e+01 9.435800e+04  
422 8.82 96 1.9 2.311943e+02 8.766930e+05  
423 6.96 94 2.4 2.494465e+01 8.489310e+05  
424 7.86 92 2.9 1.962473e+02 8.212264e+06  
425 1.30 99 3.4 1.779995e+01 7.939573e+06  
426 11.49 92 3.8 1.658794e+02 7.675338e+06  
427 9.84 87 4.3 1.557434e+01 7.423289e+06  
428 7.10 83 4.8 1.274297e+02 7.182451e+06  
429 5.25 82 5.1 1.128494e+02 6.953113e+06  
430 5.15 81 5.2 1.224336e+02 6.741569e+06  
431 4.96 81 5.3 1.337428e+02 6.555829e+06  
432 4.98 8 5.2 1.359984e+02 6.476000e+03  
433 NA 83 1.9 NA NA  
434 5.72 76 2.0 NA NA  
435 5.81 8 2.4 NA NA  
436 6.14 82 2.9 NA NA  
437 6.42 62 3.3 NA NA  
438 6.32 85 3.3 NA NA  
439 6.41 81 3.7 NA NA  
440 6.21 74 4.1 NA NA  
441 6.35 76 5.3 NA NA  
442 5.87 77 5.8 NA NA  
443 5.39 76 6.1 NA NA  
444 5.24 67 6.5 NA NA  
445 4.65 61 6.7 NA NA  
446 4.47 64 6.9 NA NA  
447 4.85 66 7.0 NA NA  
448 6.00 65 7.1 NA NA  
449 NA 93 0.2 2.954119e+03 5.329130e+05  
450 4.76 95 0.2 3.529618e+03 5.264370e+05  
451 4.29 93 0.2 3.558796e+03 5.216000e+03  
452 4.61 94 0.3 3.484828e+02 5.139790e+05  
453 4.60 9 0.3 3.674295e+02 5.867000e+03  
454 4.83 99 0.4 3.312826e+03 5.238400e+04  
455 4.24 99 0.4 3.444557e+03 4.969630e+05  
456 3.96 99 0.4 3.638959e+03 4.917230e+05  
457 4.30 98 0.6 3.112286e+03 4.864380e+05  
458 5.11 96 0.6 2.342899e+02 4.879500e+04  
459 4.86 95 0.8 2.481346e+02 4.745670e+05  
460 5.60 93 0.8 1.976459e+03 4.676640e+05  
461 5.00 92 0.9 1.768921e+03 4.614700e+04  
462 5.17 91 0.8 1.373516e+03 4.521600e+04  
463 5.19 9 0.8 1.268885e+03 4.437160e+05  
464 4.81 9 0.8 1.239378e+03 4.357900e+04  
465 NA 89 0.2 1.163190e+03 1.551764e+07  
466 5.68 88 0.2 1.986871e+02 1.527790e+05  
467 5.93 83 0.2 1.284196e+02 1.522692e+06  
468 6.24 86 0.3 9.524413e+01 1.477687e+07  
469 5.64 88 0.3 8.824915e+02 1.453789e+07  
470 5.95 89 0.5 7.856929e+02 1.438740e+05  
471 6.36 94 0.6 7.382327e+02 1.492800e+04  
472 5.55 91 0.7 7.457878e+02 1.388590e+05  
473 3.75 82 0.9 6.316758e+02 1.367669e+07  
474 4.48 8 1.1 5.398792e+02 1.347449e+07  
475 5.84 82 1.4 4.742239e+02 1.327210e+05  
476 6.43 85 1.7 4.861518e+01 1.363377e+06  
477 6.74 69 1.9 3.624214e+02 1.285312e+07  
478 5.95 54 2.1 3.396770e+02 1.263473e+07  
479 5.70 6 2.2 3.212263e+02 1.242473e+06  
480 5.87 59 2.1 3.685949e+00 1.215235e+07  
481 NA 84 3.5 1.244429e+03 2.283452e+07  
482 4.10 87 3.7 1.441142e+03 2.223994e+06  
483 4.29 89 4.0 1.365344e+03 2.165572e+07  
484 4.34 85 4.6 1.255648e+03 2.182383e+06  
485 3.96 82 4.9 1.295650e+03 2.524470e+05  
486 5.28 84 5.5 1.182869e+03 1.997495e+06  
487 5.70 8 6.3 1.231954e+02 1.943254e+07  
488 5.18 84 6.7 1.233524e+03 1.897800e+04  
489 4.76 82 7.0 1.117119e+02 1.839539e+07  
490 4.69 81 7.2 1.298916e+01 1.789956e+07  
491 4.75 8 7.4 9.521872e+02 1.742795e+06  
492 4.73 73 7.5 9.321172e+01 1.695981e+06  
493 4.97 73 7.7 8.248689e+02 1.651382e+07  
494 4.86 66 7.8 6.763977e+02 1.684886e+06  
495 4.70 63 7.9 6.146729e+02 1.567193e+07  
496 4.48 62 7.7 6.841440e+01 1.527423e+07  
497 NA 91 0.1 4.331574e+04 3.584861e+06  
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512 8.67 89 0.1 2.412417e+04 3.769700e+04  
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514 4.20 47 4.5 3.771323e+02 4.515392e+06  
515 3.82 23 5.1 3.374850e+02 4.499653e+06  
516 3.62 47 5.1 4.864111e+02 4.494160e+05  
517 3.73 47 5.8 4.943368e+02 4.476153e+06  
518 3.90 45 6.6 4.464434e+02 4.448525e+06  
519 3.58 42 7.3 4.499618e+02 4.442300e+04  
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523 4.29 54 11.2 3.271149e+02 4.127910e+05  
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526 4.16 44 13.4 2.537683e+02 3.976120e+05  
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532 3.00 4 3.6 9.734726e+02 1.275135e+06  
533 3.17 33 3.9 9.892364e+02 1.228865e+07  
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535 3.31 24 4.4 8.445594e+01 1.152786e+06  
536 2.92 19 4.7 9.297724e+02 1.113386e+07  
537 3.35 28 4.9 8.168388e+01 1.775780e+05  
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539 3.91 25 5.2 6.624214e+01 1.679000e+03  
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542 8.33 25 5.0 2.285482e+01 9.168900e+04  
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544 6.28 36 4.6 1.662318e+02 8.342559e+06  
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546 7.79 95 0.1 1.481738e+04 1.761380e+07  
547 7.53 91 0.1 1.594140e+04 1.746298e+07  
548 7.24 9 0.1 1.543193e+04 1.739746e+06  
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562 5.55 99 0.1 7.683524e+03 1.364270e+05  
563 5.39 99 0.1 7.777759e+02 1.357380e+05  
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565 5.30 99 0.1 5.633796e+03 1.344130e+05  
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576 4.60 85 0.1 9.593722e+02 1.262645e+06  
577 NA 91 0.1 6.445256e+02 4.822870e+07  
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581 6.64 85 0.1 7.227740e+03 4.646646e+06  
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594 6.75 87 0.8 8.529544e+02 7.593850e+05  
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612 3.98 85 3.3 NA NA  
613 2.79 82 3.5 NA NA  
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615 2.27 78 4.0 NA NA  
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617 2.54 72 5.0 NA NA  
618 2.37 73 5.5 NA NA  
619 2.42 62 5.9 NA NA  
620 2.56 67 6.3 NA NA  
621 2.61 5 6.8 NA NA  
622 2.45 41 7.2 NA NA  
623 2.44 31 7.6 NA NA  
624 2.13 33 7.8 NA NA  
625 3.58 98 0.1 NA NA  
626 NA 92 0.1 1.146363e+03 4.878520e+05  
627 9.31 91 0.1 1.647442e+03 4.757575e+06  
628 9.47 95 0.1 1.569666e+03 4.764100e+04  
629 9.56 91 0.1 9.985370e+03 4.654122e+06  
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657 7.66 93 0.1 4.919629e+03 4.426000e+03  
658 NA 99 0.1 7.622612e+02 NA  
659 11.60 99 0.1 7.551990e+01 NA  
660 9.48 99 0.1 6.761534e+02 NA  
661 8.59 99 0.1 6.425941e+03 NA  
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677 7.44 99 0.1 2.895116e+04 1.135620e+05  
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695 7.43 99 0.1 NA NA  
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734 3.20 41 2.2 NA NA  
735 2.59 38 2.4 NA NA  
736 2.67 3 2.4 NA NA  
737 1.45 4 2.5 NA NA  
738 NA 93 0.1 5.314644e+03 5.683483e+06  
739 1.80 94 0.1 6.242554e+04 5.643475e+06  
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741 1.98 94 0.1 5.857521e+03 5.591572e+06  
742 1.87 91 0.1 6.175367e+04 5.575720e+05  
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778 4.20 82 1.4 5.113794e+02 9.636520e+05  
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787 NA 78 0.1 6.256222e+02 1.614437e+07  
788 9.16 83 0.1 6.432217e+03 1.593112e+06  
789 7.29 87 0.1 6.749829e+02 1.566155e+07  
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814 5.21 97 0.1 NA NA  
815 5.41 98 0.1 NA NA  
816 5.97 97 0.1 NA NA  
817 5.75 99 0.1 NA NA  
818 5.55 98 0.1 NA NA  
819 NA 91 0.2 4.127118e+03 6.312478e+06  
820 6.77 94 0.2 3.988772e+03 6.281189e+06  
821 6.95 92 0.2 3.895664e+03 6.257770e+05  
822 6.70 92 0.3 3.827786e+03 6.221246e+06  
823 6.81 89 0.3 3.736587e+03 6.192560e+05  
824 6.91 89 0.3 3.474392e+03 6.164626e+06  
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827 6.32 99 0.3 3.348382e+02 6.834750e+05  
828 6.68 96 0.2 3.629518e+02 6.564780e+05  
829 7.19 89 0.2 2.835281e+03 6.289610e+05  
830 7.30 9 0.3 2.632799e+03 6.775000e+03  
831 7.61 94 0.3 2.519737e+03 5.971535e+06  
832 7.90 81 0.4 2.484125e+02 5.943300e+04  
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834 8.17 99 0.4 2.238412e+03 5.867626e+06  
835 NA 16 4.2 1.347313e+03 1.175389e+06  
836 3.80 2 4.4 1.925973e+02 1.129424e+06  
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839 3.29 41 7.7 2.145189e+04 9.942900e+04  
840 3.84 44 7.2 1.713645e+04 9.511400e+04  
841 5.32 43 7.3 1.653294e+03 9.911100e+04  
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843 2.25 41 5.9 1.576184e+04 8.293270e+05  
844 2.13 4 5.3 1.273228e+04 7.922170e+05  
845 1.63 39 4.9 1.856333e+02 7.573170e+05  
846 2.40 38 4.4 6.853490e+02 7.248170e+05  
847 2.23 37 3.6 3.577176e+03 6.946110e+05  
848 2.50 36 2.9 2.711171e+03 6.664700e+04  
849 1.78 35 2.3 2.283879e+03 6.397620e+05  
850 2.73 34 1.9 1.726849e+02 6.143230e+05  
851 NA 95 0.4 NA NA  
852 3.34 94 0.4 NA NA  
853 3.10 94 0.5 NA NA  
854 2.98 94 0.6 NA NA  
855 3.60 96 0.7 5.827755e+02 4.474690e+05  
856 3.24 9 0.9 4.821499e+02 4.398400e+04  
857 3.30 92 1.0 4.375445e+01 4.313340e+05  
858 3.69 94 1.1 3.268256e+02 4.232636e+06  
859 3.29 91 1.3 3.173294e+02 4.153332e+06  
860 3.30 94 1.4 2.978286e+02 4.666480e+05  
861 2.97 96 1.6 2.767590e+02 3.969700e+04  
862 3.14 98 1.8 2.874222e+02 3.858623e+06  
863 3.50 93 1.9 2.327945e+02 3.738265e+06  
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865 3.95 86 2.0 2.151392e+02 3.497124e+06  
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873 6.93 95 0.1 1.472632e+04 1.334515e+06  
874 6.60 95 0.1 1.894549e+03 1.337900e+04  
875 5.16 95 0.1 1.658645e+04 1.346800e+04  
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877 5.20 96 0.1 1.338313e+03 1.354775e+06  
878 5.13 94 0.1 8.854651e+02 1.362550e+05  
879 4.92 94 0.1 7.174237e+03 1.377200e+04  
880 4.84 94 0.1 5.383478e+02 1.379350e+05  
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890 4.28 54 2.4 3.253826e+02 8.318489e+07  
891 4.69 5 2.8 2.433268e+02 8.149000e+03  
892 4.47 46 3.3 1.937950e+02 7.885689e+06  
893 4.20 44 3.7 1.616266e+02 7.672783e+06  
894 4.23 4 4.1 1.357624e+02 7.462445e+06  
895 4.64 37 4.4 1.188734e+02 7.254514e+07  
896 4.73 35 4.6 1.113634e+02 7.497192e+06  
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902 4.16 99 0.1 4.546739e+03 8.735960e+05  
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906 3.68 99 0.1 4.177658e+03 8.433400e+04  
907 3.74 99 0.1 4.788233e+02 8.348120e+05  
908 3.84 98 0.1 3.749940e+03 8.274110e+05  
909 3.61 96 0.1 3.658638e+03 8.218170e+05  
910 3.61 95 0.1 3.332919e+03 8.183540e+05  
911 3.35 94 0.1 2.835974e+03 8.166280e+05  
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913 3.28 91 0.1 2.388917e+02 8.142180e+05  
914 3.87 9 0.1 2.761338e+02 8.112230e+05  
915 NA 97 0.1 4.245397e+03 5.479531e+06  
916 9.68 98 0.1 4.991462e+04 5.461512e+06  
917 9.55 98 0.1 4.963877e+04 5.438972e+06  
918 9.30 99 0.1 4.741556e+04 5.413971e+06  
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920 9.50 99 0.1 4.622415e+03 5.363352e+06  
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928 7.81 98 0.1 2.683426e+04 5.259800e+04  
929 7.43 98 0.1 2.491324e+04 5.188800e+04  
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934 11.44 99 0.1 4.838244e+03 6.565979e+06  
935 11.33 99 0.1 4.381288e+03 6.534278e+07  
936 11.20 99 0.1 4.733428e+02 6.527512e+06  
937 11.28 98 0.1 4.163113e+04 6.477440e+05  
938 1.57 98 0.1 4.541366e+04 6.437499e+06  
939 1.45 98 0.1 4.165840e+02 6.416229e+06  
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941 1.60 98 0.1 3.487973e+04 6.317936e+07  
942 1.53 98 0.1 3.387474e+04 6.274897e+06  
943 1.43 97 0.1 2.969118e+04 6.224488e+07  
944 1.22 97 0.1 2.427524e+04 6.185267e+06  
945 9.89 97 0.1 2.252732e+04 6.135743e+07  
946 9.77 97 0.1 2.246564e+04 6.912498e+06  
947 NA 8 2.7 7.388984e+03 1.931750e+05  
948 3.44 7 2.8 9.692164e+03 1.875713e+06  
949 3.98 79 3.7 9.679743e+03 1.817271e+06  
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952 3.41 67 7.0 8.754113e+03 1.642100e+04  
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955 2.86 81 10.0 8.352817e+03 1.489193e+06  
956 2.88 45 10.7 7.277773e+02 1.444844e+06  
957 2.76 45 10.9 6.741294e+03 1.431260e+05  
958 3.26 45 11.1 5.685578e+03 1.364250e+05  
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962 2.89 45 9.5 4.116467e+03 1.231122e+06  
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975 4.22 87 2.7 NA NA  
976 3.75 87 2.5 NA NA  
977 3.71 87 2.3 NA NA  
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982 8.57 92 0.1 4.142869e+03 3.825000e+03  
983 9.38 94 0.1 3.725632e+03 3.875000e+03  
984 1.50 92 0.1 2.964477e+03 3.926000e+03  
985 1.19 88 0.1 2.765885e+02 3.978000e+03  
986 8.99 92 0.1 3.174949e+03 4.300000e+01  
987 8.17 98 0.1 2.492129e+03 4.820000e+02  
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989 8.60 82 0.1 1.535752e+02 4.190000e+02  
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992 8.72 84 0.1 7.793846e+02 4.357000e+03  
993 7.82 87 0.1 7.339741e+02 4.386400e+04  
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997 11.16 95 0.1 4.653911e+03 8.645650e+05  
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1013 4.63 9 0.9 1.814492e+03 2.634625e+07  
1014 4.79 92 0.9 1.629822e+03 2.573349e+06  
1015 4.81 91 1.3 1.574979e+03 2.512180e+07  
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1023 3.12 8 3.4 3.732816e+02 2.446782e+06  
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1106 4.94 49 3.1 2.977519e+02 1.243229e+06  
1107 NA 95 0.3 4.136690e+03 7.685140e+05  
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1120 5.84 91 2.3 9.686748e+01 7.518840e+05  
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1122 5.85 88 1.1 9.465994e+02 7.533100e+04  
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1125 8.10 68 0.5 8.126567e+01 1.431776e+06  
1126 9.88 67 0.8 7.668438e+02 1.289210e+05  
1127 1.41 68 1.5 7.493585e+01 1.145540e+05  
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1134 5.61 55 4.3 3.879430e+02 9.119178e+06  
1135 5.32 53 4.6 3.297829e+02 8.976552e+06  
1136 5.47 48 4.8 3.931633e+02 8.834733e+06  
1137 5.63 45 5.0 4.137383e+02 8.692567e+06  
1138 6.60 41 5.1 4.624865e+02 8.549200e+04  
1139 NA 97 0.3 2.326159e+03 8.968290e+05  
1140 8.72 97 0.3 2.242712e+03 8.892160e+05  
1141 9.15 97 0.4 2.136774e+03 8.657785e+06  
1142 9.78 97 0.4 2.178383e+03 8.556460e+05  
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1147 7.89 94 0.7 1.592572e+03 7.779720e+05  
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1149 7.81 98 0.9 1.311742e+03 7.373430e+05  
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1154 6.63 94 1.7 1.887832e+02 6.524283e+06  
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1156 7.40 99 0.1 1.411798e+04 9.866468e+06  
1157 7.53 99 0.1 1.361361e+04 9.893820e+05  
1158 7.74 99 0.1 1.283432e+04 9.923620e+05  
1159 7.84 99 0.1 1.448880e+03 9.971727e+06  
1160 7.85 99 0.1 1.325534e+03 1.230000e+02  
1161 7.55 99 0.1 1.296717e+04 1.226500e+04  
1162 7.33 99 0.1 1.566926e+04 1.381880e+05  
1163 7.51 99 0.1 1.384265e+04 1.557800e+04  
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1165 8.28 99 0.1 1.116172e+04 1.876500e+04  
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1175 8.65 95 0.1 4.621700e+01 3.191400e+04  
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1179 8.75 97 0.1 6.834832e+04 3.115660e+05  
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1196 4.25 65 0.3 7.922597e+02 1.161978e+09  
1197 4.28 65 0.3 7.781900e+01 1.144119e+09  
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1217 2.23 76 0.1 7.479817e+02 2.145652e+06  
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1221 6.49 98 0.1 NA NA  
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1223 7.12 99 0.1 NA NA  
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1225 7.63 99 0.1 NA NA  
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1228 5.95 98 0.1 NA NA  
1229 6.60 95 0.1 NA NA  
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1233 5.20 96 0.1 NA NA  
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1249 NA 78 0.1 NA 2.425165e+07  
1250 NA 8 0.1 NA 2.356541e+07  
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1300 5.36 92 0.5 4.855744e+03 2.862870e+05  
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1302 5.66 96 0.5 5.213336e+02 2.849920e+05  
1303 5.21 92 0.6 5.135495e+02 2.829493e+06  
1304 5.30 94 0.5 4.682728e+03 2.817210e+05  
1305 5.16 9 0.6 4.293383e+03 2.848200e+04  
1306 5.40 91 0.4 4.924924e+02 2.791220e+05  
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1415 6.18 96 0.2 NA NA  
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1427 NA 89 0.2 NA NA  
1428 1.87 88 0.2 NA NA  
1429 2.00 87 0.3 NA NA  
1430 2.12 79 0.3 NA NA  
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1434 2.77 61 0.2 NA NA  
1435 4.14 5 0.2 NA NA  
1436 4.14 57 0.2 NA NA  
1437 4.32 49 0.2 NA NA  
1438 4.54 45 0.2 NA NA  
1439 4.91 49 0.1 NA NA  
1440 4.40 53 0.1 NA NA  
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1442 3.41 51 0.1 NA NA  
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1444 5.88 92 0.1 1.572514e+04 1.993782e+06  
1445 5.67 94 0.1 1.532229e+03 2.126470e+05  
1446 5.91 91 0.1 1.382286e+04 2.343190e+05  
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1453 6.37 99 0.1 7.558743e+03 2.238799e+06  
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1456 6.29 97 0.1 4.132349e+03 2.311730e+05  
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1458 6.00 96 0.1 3.352731e+03 2.367550e+05  
1459 NA 81 0.1 8.466329e+02 5.851479e+06  
1460 6.39 81 0.1 8.161461e+03 5.632790e+05  
1461 6.63 81 0.1 8.462852e+02 5.276120e+05  
1462 6.99 81 0.1 8.787947e+03 4.916440e+05  
1463 7.12 81 0.1 8.734965e+03 4.588368e+06  
1464 7.19 81 0.1 8.763826e+03 4.337141e+06  
1465 7.42 81 0.1 8.426888e+01 4.183156e+06  
1466 8.70 81 0.1 7.127758e+02 4.111470e+05  
1467 8.90 8 0.1 6.142711e+02 4.864660e+05  
1468 8.83 78 0.1 5.372659e+03 4.573500e+04  
1469 8.42 77 0.1 5.339441e+03 3.986852e+06  
1470 8.91 75 0.1 5.424224e+03 3.863267e+06  
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1472 1.50 77 0.1 5.436595e+03 3.522837e+06  
1473 1.90 8 0.1 5.253123e+03 3.359859e+06  
1474 1.86 83 0.1 5.334933e+03 3.235366e+06  
1475 NA 93 9.3 1.738289e+02 2.174645e+06  
1476 1.62 93 9.4 1.174839e+03 2.145785e+06  
1477 11.70 93 9.6 1.196133e+03 2.117361e+06  
1478 11.14 95 9.0 1.281516e+03 2.899280e+05  
1479 11.79 96 10.5 1.352384e+03 2.641660e+05  
1480 1.87 93 13.4 1.173262e+03 2.455100e+04  
1481 9.80 91 18.2 9.231369e+02 2.192900e+04  
1482 8.85 88 27.3 9.344286e+02 1.999930e+05  
1483 8.47 88 30.0 9.184327e+02 1.982287e+06  
1484 7.12 89 34.1 9.157758e+02 1.965662e+06  
1485 6.30 89 34.8 8.629463e+02 1.949543e+06  
1486 6.96 9 34.6 7.815146e+02 1.933728e+06  
1487 7.13 9 33.8 6.363628e+01 1.918970e+05  
1488 6.91 84 32.5 4.789395e+01 1.923120e+05  
1489 7.53 78 31.2 4.378192e+02 1.885955e+06  
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1491 NA 52 0.9 4.523872e+02 4.499621e+06  
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1493 9.25 76 1.1 4.541222e+02 4.286291e+06  
1494 1.19 8 1.2 4.153620e+02 4.181563e+06  
1495 11.23 77 1.5 3.796896e+02 4.716700e+04  
1496 11.87 7 1.8 3.274260e+02 3.948125e+06  
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1498 11.83 75 2.4 2.326173e+02 3.662993e+06  
1499 1.24 65 2.8 2.137333e+01 3.512932e+06  
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1502 8.77 31 3.2 1.494453e+02 3.176414e+06  
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1504 5.43 39 3.1 1.772852e+02 3.628630e+05  
1505 6.41 42 3.1 1.741815e+02 2.991132e+06  
1506 5.91 46 3.1 1.834150e+02 2.884522e+06  
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1508 4.97 94 0.1 NA NA  
1509 4.33 96 0.1 NA NA  
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1518 3.46 97 0.1 5.868364e+02 NA  
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1554 7.48 99 0.1 4.873600e+04 4.363000e+03  
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1556 3.40 73 0.3 4.524632e+02 2.358981e+06  
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1560 4.86 7 0.5 4.127393e+02 2.115164e+06  
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1570 5.80 57 0.6 2.459397e+02 1.576686e+06  
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1577 1.18 93 14.9 4.273797e+01 1.471462e+06  
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1580 8.99 99 21.1 2.976971e+02 1.342926e+07  
1581 8.20 93 22.4 2.836738e+01 1.339711e+06  
1582 7.82 89 23.4 2.742256e+02 1.267638e+06  
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1584 4.82 64 24.7 2.997990e+01 1.213711e+06  
1585 5.70 9 25.1 1.467615e+02 1.169586e+07  
1586 6.70 75 25.5 1.532595e+02 1.137617e+07  
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1589 4.20 97 0.1 1.882278e+03 2.976724e+06  
1590 4.10 97 0.1 1.779496e+03 2.917456e+06  
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1592 3.99 96 0.1 9.713570e+02 2.811229e+07  
1593 3.97 97 0.1 7.326744e+03 2.765383e+06  
1594 3.47 97 0.1 8.513630e+03 2.711169e+06  
1595 3.61 97 0.1 7.269171e+03 2.662584e+07  
1596 3.65 95 0.1 6.222983e+03 2.614357e+07  
1597 3.29 96 0.1 5.593823e+03 2.565939e+07  
1598 3.74 95 0.1 4.955478e+03 2.517419e+06  
1599 3.95 96 0.1 4.463676e+03 2.468873e+06  
1600 3.40 94 0.1 4.167364e+03 2.419881e+07  
1601 3.40 96 0.1 3.915115e+03 2.369897e+06  
1602 3.40 98 0.1 4.451747e+02 2.318568e+06  
1603 NA 99 0.1 8.395785e+03 4.916300e+04  
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1606 9.16 99 0.1 6.541747e+03 3.850000e+02  
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1618 8.00 98 0.1 2.182997e+03 2.860000e+02  
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1625 6.85 73 1.6 6.971531e+02 1.466597e+06  
1626 6.74 74 1.6 6.896784e+02 1.413822e+07  
1627 6.97 74 1.7 5.956368e+02 1.367566e+06  
1628 6.56 78 1.8 5.216426e+02 1.322764e+06  
1629 6.34 77 1.9 4.879426e+02 1.279876e+07  
1630 6.28 69 2.0 4.393573e+02 1.239196e+06  
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1632 6.32 61 2.3 3.342242e+02 1.163893e+07  
1633 6.39 49 2.4 3.684732e+01 1.129326e+07  
1634 6.29 43 2.5 2.693484e+02 1.967690e+05  
1635 NA 97 0.1 2.381946e+04 4.318740e+05  
1636 9.75 99 0.1 2.618926e+03 4.273640e+05  
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1638 9.95 99 0.1 2.193884e+03 4.194550e+05  
1639 9.60 96 0.1 2.282185e+04 4.162680e+05  
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1643 8.36 74 0.1 1.937557e+04 4.672400e+04  
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1701 13.71 77 0.1 NA NA  
1702 13.38 81 0.1 NA NA  
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1733 NA 89 0.1 6.461193e+03 6.221590e+05  
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1762 5.31 94 0.1 1.413757e+03 2.951237e+07  
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1764 4.18 95 0.1 1.332382e+03 2.884962e+07  
1765 NA 8 3.9 5.283126e+02 2.816910e+05  
1766 6.98 79 4.1 6.232871e+02 2.721238e+07  
1767 5.90 78 5.1 6.598568e+01 2.643437e+07  
1768 5.58 76 6.9 5.665139e+02 2.567666e+06  
1769 6.23 76 9.6 5.265314e+02 2.493950e+05  
1770 5.38 74 10.8 4.192258e+02 2.422145e+06  
1771 5.43 74 11.3 4.638526e+02 2.352463e+06  
1772 4.91 75 12.6 5.312772e+01 2.284676e+07  
1773 5.25 75 14.1 4.221462e+02 2.218839e+07  
1774 6.51 78 16.3 3.857567e+02 2.154746e+07  
1775 6.87 8 16.2 3.691545e+02 2.923700e+04  
1776 5.91 83 15.9 3.363318e+02 2.312750e+05  
1777 6.39 85 15.3 2.838912e+02 1.971660e+07  
1778 6.45 76 14.5 2.628846e+02 1.913966e+07  
1779 5.64 73 13.4 2.564415e+02 1.858876e+07  
1780 6.16 7 12.2 2.776487e+02 1.867687e+06  
1781 NA 89 0.3 1.194591e+03 5.243669e+06  
1782 2.28 88 0.3 1.262894e+03 5.192418e+07  
1783 2.16 75 0.4 1.168839e+03 5.144820e+07  
1784 2.22 84 0.5 1.171583e+03 5.986514e+06  
1785 1.87 84 0.5 1.186424e+03 5.553310e+05  
1786 1.92 9 0.5 9.877366e+02 5.155896e+06  
1787 2.50 9 0.6 7.417771e+02 4.986900e+04  
1788 1.87 85 0.6 6.439514e+02 4.947975e+07  
1789 1.68 86 0.6 4.145100e+01 4.917159e+07  
1790 1.78 82 0.6 2.969728e+02 4.884647e+07  
1791 1.83 73 0.5 2.472428e+02 4.848261e+07  
1792 1.97 82 0.5 2.198157e+02 4.873770e+05  
1793 1.97 78 0.5 2.197823e+02 4.762489e+07  
1794 2.50 79 0.4 1.437765e+02 4.714220e+05  
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1796 1.84 82 0.4 1.931875e+02 4.695462e+06  
1797 NA 92 2.1 4.737670e+03 2.425561e+06  
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1799 8.53 89 2.5 5.488132e+03 2.316520e+05  
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1803 8.50 83 8.7 4.153498e+03 2.137400e+04  
1804 7.15 83 11.7 4.296561e+02 2.163750e+05  
1805 6.99 86 15.2 4.225197e+02 2.799150e+05  
1806 7.20 86 19.2 3.881295e+03 2.557340e+05  
1807 7.32 86 22.1 3.573146e+03 2.321960e+05  
1808 6.47 81 24.0 3.288257e+03 2.922800e+04  
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1810 6.17 77 24.6 1.713476e+03 1.962147e+06  
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1812 6.11 79 22.8 2.579956e+02 1.899257e+06  
1813 4.65 87 0.1 1.361832e+02 NA  
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1818 6.73 92 0.2 6.921167e+02 2.732715e+07  
1819 6.43 82 0.2 5.921835e+02 2.723137e+06  
1820 6.41 89 0.2 4.872990e+01 2.674113e+06  
1821 6.44 82 0.2 4.738444e+02 2.647586e+07  
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1823 5.70 89 0.2 3.486315e+02 2.594618e+06  
1824 5.72 75 0.2 3.178920e+02 2.564287e+06  
1825 5.82 8 0.2 2.874156e+02 2.539449e+06  
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1838 9.36 97 0.1 5.124132e+04 1.638170e+07  
1839 9.36 96 0.1 4.445397e+04 1.634611e+06  
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1845 7.42 97 0.1 2.592113e+04 1.592551e+07  
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1870 6.91 93 0.2 1.344319e+03 5.522160e+05  
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1877 5.39 83 0.4 1.162743e+02 5.267960e+05  
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1882 6.66 75 0.7 3.755820e+02 1.764636e+06  
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1886 6.94 57 1.4 2.925596e+02 1.466834e+07  
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1889 6.61 43 1.6 2.325662e+02 1.312712e+06  
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1892 7.10 36 1.6 1.652572e+02 1.177198e+07  
1893 6.10 34 1.5 1.584560e+02 1.135297e+07  
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1895 3.67 49 3.9 3.221678e+03 1.764652e+06  
1896 3.70 46 3.9 2.996964e+03 1.718293e+07  
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1907 2.43 25 5.3 4.594572e+02 1.286667e+07  
1908 3.25 27 5.1 3.517997e+02 1.254634e+08  
1909 2.84 29 4.9 3.791193e+02 1.223529e+06  
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1911 NA 95 0.1 7.455247e+03 5.188670e+05  
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1914 9.16 95 0.1 1.156373e+04 5.185730e+05  
1915 9.14 94 0.1 1.574986e+03 4.953880e+05  
1916 9.26 93 0.1 8.764675e+04 4.889252e+06  
1917 9.49 94 0.1 8.177768e+02 4.828726e+06  
1918 8.40 94 0.1 9.688596e+03 4.768212e+06  
1919 8.58 93 0.1 8.512866e+04 4.791530e+05  
1920 8.43 94 0.1 7.411470e+04 4.666770e+05  
1921 8.89 91 0.1 6.677539e+04 4.623291e+06  
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1924 9.62 93 0.1 4.361154e+03 4.538159e+06  
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1929 2.76 98 0.1 2.126876e+04 NA  
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1933 2.83 98 0.1 1.678435e+04 NA  
1934 2.10 99 0.1 2.275354e+03 NA  
1935 2.43 99 0.1 1.585132e+03 NA  
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1937 2.59 99 0.1 1.237698e+04 NA  
1938 2.98 99 0.1 1.129289e+03 NA  
1939 3.17 99 0.1 9.698126e+02 NA  
1940 3.18 99 0.1 8.629118e+03 NA  
1941 3.80 99 0.1 8.476615e+03 NA  
1942 3.70 99 0.1 8.611860e+02 NA  
1943 NA 72 0.1 1.431245e+03 1.893851e+07  
1944 2.61 72 0.1 1.316990e+03 1.855463e+08  
1945 2.70 72 0.1 1.272442e+03 1.817126e+08  
1946 2.76 72 0.1 1.261290e+03 1.779115e+08  
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1956 2.76 68 0.1 4.998633e+02 1.446541e+08  
1957 2.61 65 0.1 5.165682e+01 1.416144e+07  
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2088 NA 98 0.1 NA NA  
2089 7.37 99 0.1 NA NA  
2090 7.20 99 0.1 NA NA  
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2093 6.79 94 0.1 NA NA  
2094 6.66 94 0.1 NA NA  
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2103 4.23 97 0.1 NA NA  
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2105 1.32 9 0.1 NA NA  
2106 1.50 9 0.1 NA NA  
2107 11.87 92 0.1 NA NA  
2108 1.61 93 0.1 NA NA  
2109 12.80 9 0.1 NA NA  
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2111 11.41 9 0.1 NA NA  
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2124 5.53 89 0.1 9.227783e+01 2.147528e+06  
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2127 5.33 96 0.1 1.136474e+03 2.537875e+06  
2128 5.21 96 0.1 8.214185e+03 2.882982e+06  
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2131 5.43 97 0.1 3.552925e+03 2.145175e+07  
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2134 4.36 99 0.1 1.839729e+03 2.213197e+06  
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2148 5.61 96 0.4 2.975133e+03 1.446483e+08  
2149 5.99 97 0.3 2.375594e+03 1.453646e+06  
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2155 7.68 98 0.7 6.787970e+02 1.788853e+06  
2156 7.71 97 1.3 6.173176e+02 1.516710e+05  
2157 7.91 97 2.3 5.634915e+02 1.246842e+06  
2158 7.20 97 2.8 5.391538e+02 9.977446e+06  
2159 7.66 97 3.7 5.668726e+00 9.781690e+05  
2160 8.49 97 5.0 4.485334e+01 9.447420e+05  
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2162 6.83 95 7.1 2.879319e+02 8.991735e+06  
2163 6.24 89 7.7 2.369114e+02 8.818438e+06  
2164 6.34 96 8.1 2.126619e+02 8.683460e+05  
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2166 4.38 77 8.1 2.156965e+01 8.329460e+05  
2167 4.22 9 8.5 2.161727e+02 8.257300e+04  
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2172 8.35 98 0.1 NA NA  
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2175 8.12 95 0.1 NA NA  
2176 7.43 96 0.1 NA NA  
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2180 6.20 91 0.2 NA NA  
2181 6.10 9 0.2 NA NA  
2182 6.33 74 0.1 NA NA  
2183 6.10 99 0.3 NA NA  
2184 5.53 7 0.4 NA NA  
2185 NA 98 0.1 NA NA  
2186 8.63 98 0.1 NA NA  
2187 5.21 97 0.1 NA NA  
2188 8.48 96 0.1 NA NA  
2189 4.99 96 0.1 NA NA  
2190 4.71 99 0.1 NA NA  
2191 5.13 99 0.2 NA NA  
2192 4.70 99 0.3 NA NA  
2193 3.92 99 0.3 NA NA  
2194 3.88 99 0.3 NA NA  
2195 3.66 99 0.2 NA NA  
2196 3.72 99 0.4 NA NA  
2197 3.91 99 0.4 NA NA  
2198 3.93 99 0.4 NA NA  
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2203 6.91 67 0.1 4.219651e+03 1.975700e+04  
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2205 5.80 65 0.1 3.942983e+03 1.876650e+05  
2206 5.70 62 0.1 3.453487e+03 1.862500e+04  
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2208 4.52 26 0.1 3.598222e+02 1.835260e+05  
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2210 4.68 39 0.1 2.879639e+02 1.819400e+04  
2211 4.47 49 0.1 2.571262e+03 1.799290e+05  
2212 4.45 55 0.1 2.351338e+03 1.787810e+05  
2213 4.71 83 0.1 1.972942e+02 1.776620e+05  
2214 5.10 86 0.1 1.631417e+03 1.765820e+05  
2215 5.16 85 0.1 1.555475e+03 1.755660e+05  
2216 5.31 95 0.1 1.546892e+02 1.746100e+04  
2217 6.50 69 0.1 NA NA  
2218 NA 96 0.2 1.624640e+03 1.955530e+05  
2219 8.35 95 0.2 1.821879e+03 1.912660e+05  
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2224 6.65 98 0.9 1.995715e+02 1.781300e+04  
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2230 11.12 94 1.6 6.493422e+02 1.483720e+05  
2231 1.21 92 1.4 5.558185e+02 1.448890e+05  
2232 1.28 92 1.5 5.121638e+01 1.416220e+05  
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2242 3.49 96 0.1 1.647217e+04 NA  
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2248 4.49 97 0.1 8.643494e+03 NA  
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2265 4.63 52 0.5 4.734534e+02 9.884520e+05  
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2329 2.71 98 0.1 2.379268e+04 NA  
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2386 NA 4 0.9 NA NA  
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2388 NA 35 0.9 NA NA  
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2400 8.39 76 19.0 5.888628e+03 5.255813e+06  
2401 7.75 79 23.5 5.786600e+03 4.955757e+07  
2402 7.53 82 26.4 6.125400e+03 4.888384e+07  
2403 7.57 82 28.1 5.631735e+03 4.823384e+06  
2404 7.77 79 29.5 5.414634e+03 4.766672e+05  
2405 7.93 74 29.7 4.863517e+03 4.717990e+03  
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2407 8.90 7 26.6 2.518398e+03 4.585548e+07  
2408 8.31 71 24.0 2.681781e+03 4.531294e+07  
2409 8.70 73 21.3 3.372253e+02 4.489686e+07  
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2451 4.60 98 0.1 1.448761e+03 1.952000e+03  
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2455 3.89 98 0.1 8.731472e+02 1.893900e+04  
2456 3.81 98 0.1 8.376998e+02 1.879700e+04  
2457 3.77 99 0.1 8.754122e+02 1.865500e+04  
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2459 8.43 94 0.3 2.176898e+03 3.773791e+07  
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2461 8.20 92 0.3 1.892894e+03 3.599192e+06  
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2463 7.97 9 0.3 1.476479e+03 3.438596e+07  
2464 8.40 81 0.3 1.226884e+03 3.365619e+06  
2465 8.17 86 0.3 1.291529e+03 3.295550e+07  
2466 4.72 84 0.3 1.115695e+03 3.228253e+07  
2467 3.93 78 0.2 8.938794e+02 3.167640e+05  
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2469 3.39 74 0.2 5.655695e+02 3.186341e+06  
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2471 2.95 6 0.2 4.121518e+02 2.867956e+07  
2472 2.96 66 0.2 3.775254e+02 2.794550e+05  
2473 3.23 62 0.1 3.613584e+02 2.725535e+06  
2474 NA 89 0.4 8.818983e+03 5.532800e+04  
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2476 5.96 86 0.4 9.484569e+03 5.425400e+04  
2477 6.90 84 0.9 9.272413e+03 5.377700e+04  
2478 5.93 86 0.1 8.318977e+03 5.315890e+05  
2479 5.81 96 0.5 8.333133e+02 5.261300e+04  
2480 6.14 87 0.6 7.443852e+03 5.261900e+04  
2481 5.92 85 1.2 6.858163e+03 5.151480e+05  
2482 5.92 84 0.8 5.761395e+03 5.975000e+03  
2483 6.22 84 0.6 5.279200e+02 5.437000e+03  
2484 6.78 83 0.6 3.595885e+03 4.989460e+05  
2485 6.88 85 0.9 3.648773e+01 4.936300e+04  
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2487 7.14 73 1.6 2.232513e+03 4.834400e+04  
2488 8.38 68 1.8 1.598775e+03 4.777400e+04  
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2530 1.21 94 0.1 6.322347e+04 7.551117e+06  
2531 1.39 94 0.1 5.734893e+04 7.483934e+06  
2532 1.86 94 0.1 5.479755e+04 7.437115e+06  
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2536 1.28 93 0.1 3.853864e+04 7.229854e+06  
2537 9.91 93 0.1 3.781323e+04 7.184250e+05  
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2547 3.78 8 0.1 1.762246e+03 1.891498e+07  
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2571 4.12 99 0.1 5.941847e+03 6.841677e+07  
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2587 6.48 95 0.1 NA NA  
2588 6.70 98 0.1 NA NA  
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2594 6.90 95 0.1 NA NA  
2595 7.61 93 0.1 NA NA  
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2597 8.64 94 0.1 NA NA  
2598 9.17 96 0.1 NA NA  
2599 9.10 96 0.1 NA NA  
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2601 8.52 95 0.1 NA NA  
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2603 1.48 77 0.1 1.153516e+03 1.212814e+06  
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2605 1.10 83 0.1 1.117777e+03 1.156760e+05  
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2617 3.26 NA 0.1 4.222863e+02 8.716700e+04  
2618 NA 88 1.0 5.511383e+02 7.416820e+05  
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2625 5.73 81 4.8 5.133919e+02 6.161796e+06  
2626 5.55 82 5.1 4.276474e+01 5.997385e+06  
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2638 4.60 82 0.1 4.451887e+02 1.457700e+04  
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2642 5.82 87 0.1 2.932316e+03 1.235700e+04  
2643 5.61 88 0.1 2.892523e+03 1.168900e+04  
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2645 4.87 9 0.1 2.284379e+03 1.460000e+02  
2646 5.90 9 0.1 2.297147e+02 9.978900e+04  
2647 5.30 84 0.1 1.842444e+03 9.918400e+04  
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2649 4.75 91 0.1 2.632724e+02 9.882000e+03  
2650 NA 96 0.3 1.732183e+04 1.369200e+04  
2651 5.93 92 0.3 1.932524e+04 1.354493e+06  
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2725 9.36 64 8.7 3.157882e+02 2.854394e+06  
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2730 6.77 52 11.6 2.576337e+02 2.439274e+06  
2731 NA 23 0.2 2.124663e+03 4.515429e+06  
2732 7.10 23 0.2 3.146583e+02 4.527195e+07  
2733 7.67 76 0.2 4.297155e+02 4.548960e+05  
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2738 6.63 9 0.4 3.891378e+03 4.625820e+05  
2739 6.36 98 0.7 3.686900e+02 4.659350e+05  
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2881 11.7  
2882 11.6  
2883 11.4  
2884 11.3  
2885 11.1  
2886 11.0  
2887 10.9  
2888 10.7  
2889 10.6  
2890 10.4  
2891 9.0  
2892 9.0  
2893 9.0  
2894 9.0  
2895 8.6  
2896 8.5  
2897 8.4  
2898 8.5  
2899 8.6  
2900 8.7  
2901 8.6  
2902 8.4  
2903 8.2  
2904 8.0  
2905 7.9  
2906 7.7  
2907 12.5  
2908 12.5  
2909 12.5  
2910 12.3  
2911 12.0  
2912 11.8  
2913 11.6  
2914 11.4  
2915 11.1  
2916 10.9  
2917 10.7  
2918 10.5  
2919 10.2  
2920 10.0  
2921 9.8  
2922 9.6  
2923 10.3  
2924 10.3  
2925 10.4  
2926 9.8  
2927 10.1  
2928 10.0  
2929 9.9  
2930 9.7  
2931 9.6  
2932 9.5  
2933 9.3  
2934 9.2  
2935 9.5  
2936 10.0  
2937 9.8  
2938 9.8

Above shows a quick overview of some of the variables in each data set. There is a broad range of information that could be investigated for correlations to life expectancy.

## 2.3 Questions/Hypotheses to be addressed

Which variables are the most highly correlated to life expectancy? Are there differences in the most associated factors between the years 2000 and 2015?

# 3. Methods

The data for each set was separated by country and year, with the metrics represented in either percentages or number per 100,000 people. The full explanation of each variable can be found in the supplementary material. Cleaning the data involved matching the years of both data sets and combining them, along with renaming certain variables for more clarification. The analysis starts with some simple one variable linear models focused on the association to the variable of interest, life expectancy. Then a few machine learning approaches were used, including the decision tree model.

## 3.1 Data import and cleaning

The cleaning of the raw data can be found in datacleaning.qmd file in the code folder and processing\_code subfolder. I filtered down the risk factor data set to only include the years from 2000 to 2015 in order to match the life expectancy data. I also renamed variables in each set to make the information clearer and more ubiquitous, such as ‘Entity’ to ‘Country’ in the risk factor data.

## 3.2 Statistical analysis

Initially some generalized linear models were ran with all variables and with certain subsets of variables. Life expectancy is negatively correlated with the status of developing and positively correlated with the status of developed. After finding those results, some machine learning methods were used for more specialized conclusions and predictive modeling. A decision tree **?@fig-result5** was developed initially that illustrated simple predictive variables leading to the strata of life expectancy.

# 4. Results

## 4.1 Exploratory/Descriptive analysis

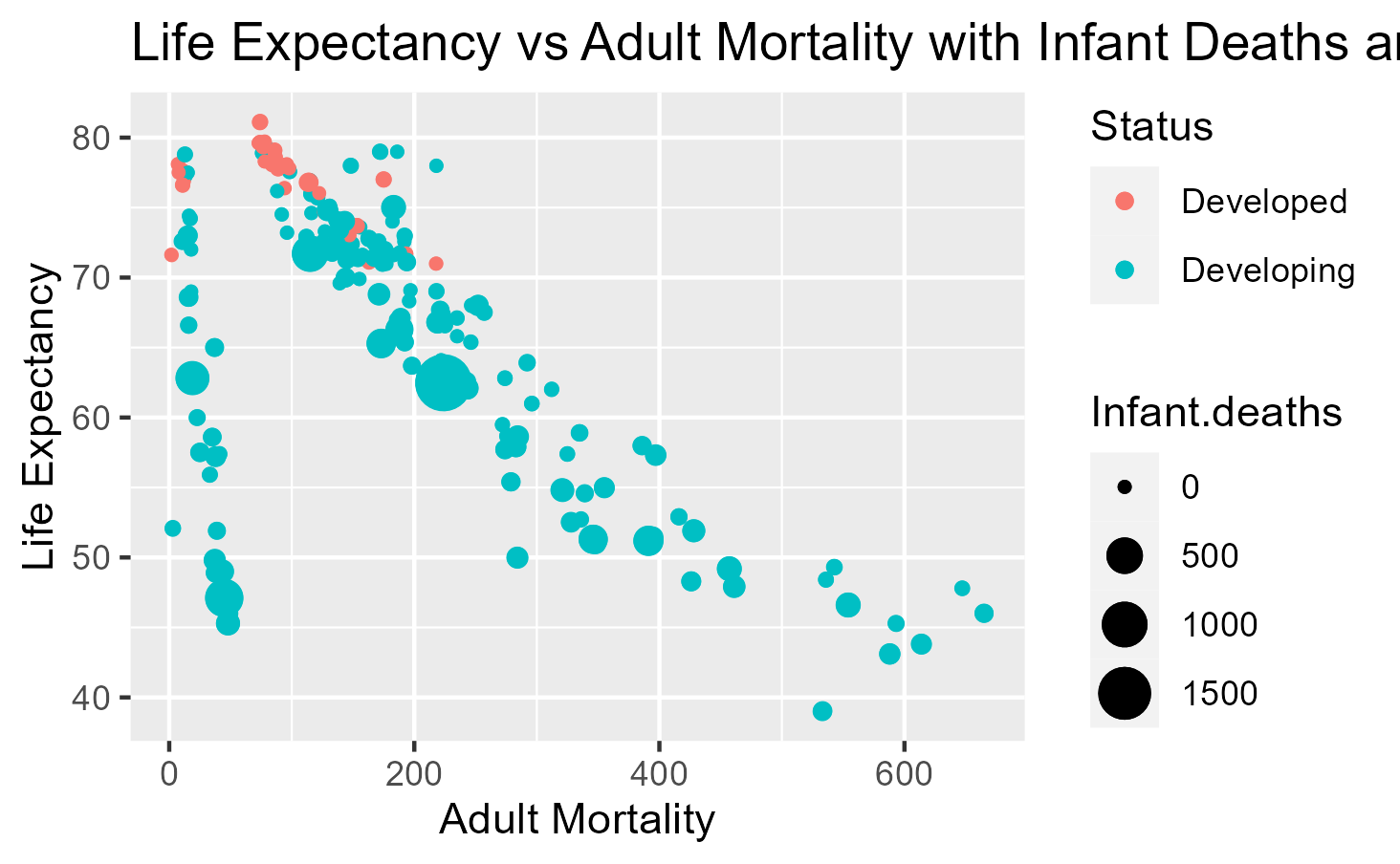
First, here are summary tables for each data set to see an overview of the data.

#Risk factor dataset summary table  
#| label: table-1  
#| fig-cap: "Risk Factor Data Summary Tabel"  
#| echo: FALSE  
readRDS(file = "../../results/summarytableriskfactor.rds")

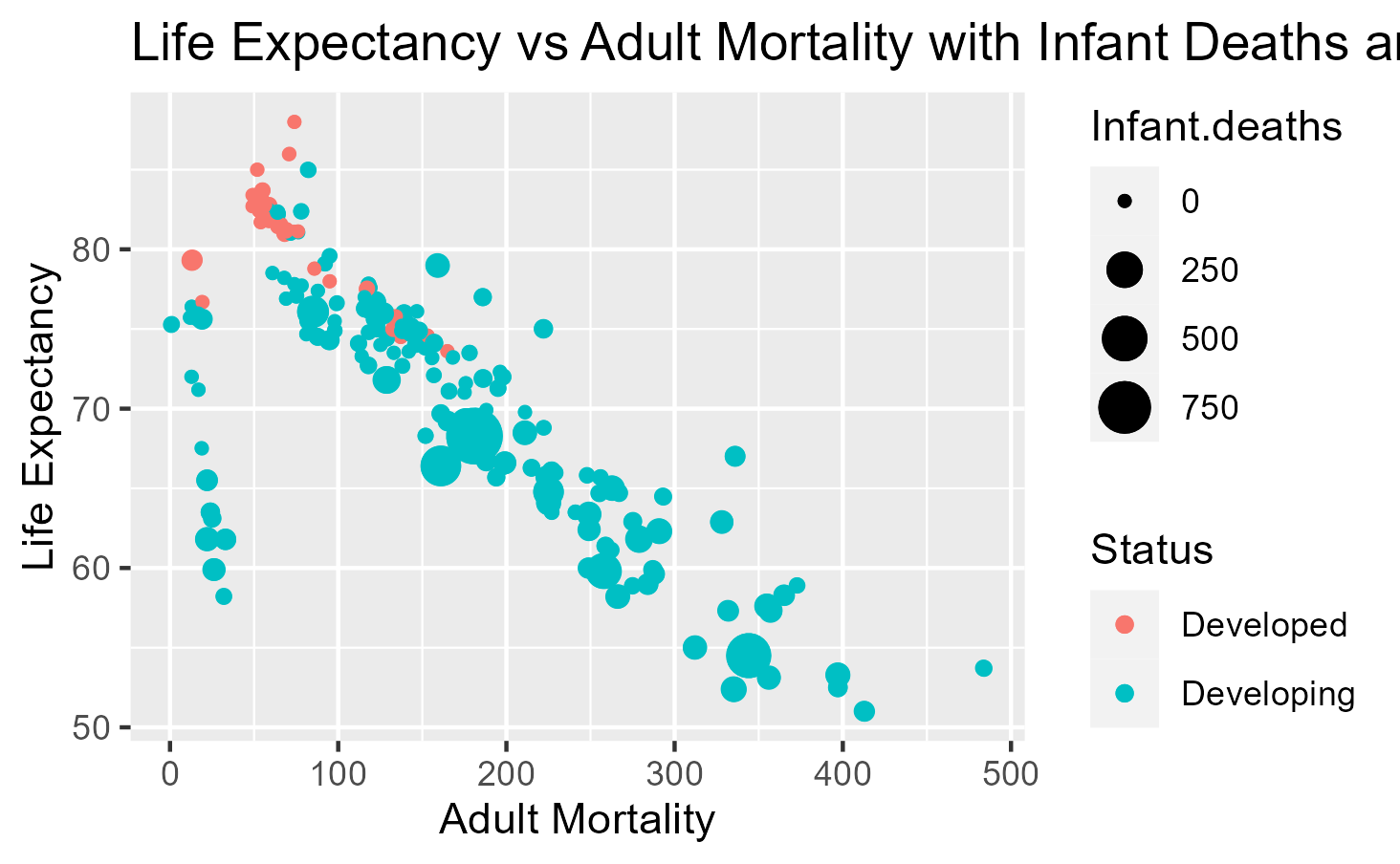
# A tibble: 31 × 17  
 skim\_type skim\_vari…¹ n\_mis…² compl…³ chara…⁴ chara…⁵ chara…⁶ chara…⁷ chara…⁸  
 \* <chr> <chr> <int> <dbl> <int> <int> <int> <int> <int>  
 1 character Country 0 1 4 48 0 231 0  
 2 numeric Year 0 1 NA NA NA NA NA  
 3 numeric Unsafe.wat… 0 1 NA NA NA NA NA  
 4 numeric Unsafe.san… 0 1 NA NA NA NA NA  
 5 numeric No.access.… 0 1 NA NA NA NA NA  
 6 numeric Household.… 0 1 NA NA NA NA NA  
 7 numeric Non.exclus… 0 1 NA NA NA NA NA  
 8 numeric Discontinu… 0 1 NA NA NA NA NA  
 9 numeric Child.wast… 0 1 NA NA NA NA NA  
10 numeric Child.stun… 0 1 NA NA NA NA NA  
# … with 21 more rows, 8 more variables: numeric.mean <dbl>, numeric.sd <dbl>,  
# numeric.p0 <dbl>, numeric.p25 <dbl>, numeric.p50 <dbl>, numeric.p75 <dbl>,  
# numeric.p100 <dbl>, numeric.hist <chr>, and abbreviated variable names  
# ¹​skim\_variable, ²​n\_missing, ³​complete\_rate, ⁴​character.min, ⁵​character.max,  
# ⁶​character.empty, ⁷​character.n\_unique, ⁸​character.whitespace

# A tibble: 22 × 17  
 skim\_type skim\_vari…¹ n\_mis…² compl…³ chara…⁴ chara…⁵ chara…⁶ chara…⁷ chara…⁸  
 \* <chr> <chr> <int> <dbl> <int> <int> <int> <int> <int>  
 1 character Country 0 1 4 52 0 193 0  
 2 character Status 0 1 9 10 0 2 0  
 3 numeric Year 0 1 NA NA NA NA NA  
 4 numeric Life.expec… 10 0.997 NA NA NA NA NA  
 5 numeric Adult.Mort… 10 0.997 NA NA NA NA NA  
 6 numeric Infant.dea… 0 1 NA NA NA NA NA  
 7 numeric Alcohol 194 0.934 NA NA NA NA NA  
 8 numeric Percentage… 0 1 NA NA NA NA NA  
 9 numeric Hepatitis.B 553 0.812 NA NA NA NA NA  
10 numeric Measles 0 1 NA NA NA NA NA  
# … with 12 more rows, 8 more variables: numeric.mean <dbl>, numeric.sd <dbl>,  
# numeric.p0 <dbl>, numeric.p25 <dbl>, numeric.p50 <dbl>, numeric.p75 <dbl>,  
# numeric.p100 <dbl>, numeric.hist <chr>, and abbreviated variable names  
# ¹​skim\_variable, ²​n\_missing, ³​complete\_rate, ⁴​character.min, ⁵​character.max,  
# ⁶​character.empty, ⁷​character.n\_unique, ⁸​character.whitespace

#Plot of Life Expectancy and Adult mortality in 2000  
#| label: fig-exp1  
#| fig-cap: "Life Expectancy and Adult Mortality 2000"  
#| echo: FALSE  
knitr::include\_graphics(here("results","p1\_2000.png"))



#Plot of Life Expectancy and Adult mortality in 2015  
#| label: fig-exp2  
#| fig-cap: "Life Expectancy and Adult Mortality 2015"  
#| echo: FALSE  
knitr::include\_graphics(here("results","p2\_2015.png"))



|  |
| --- |
| Figure 1: Life Expectancy Status Boxplot in 2000 and 2015. |

|  |
| --- |
| Figure 2: Deaths Due to Unsafe Water Source, Unsafe Sanitation, or No Access to Handwashing Facilities in the United States from 2000 to 2015 |

## 4.2 Basic statistical analysis

Here I explored some factors that would seem to be reasonably significant with simple single predictor models to life expectancy, the outcome of interest.

First, a logistic regression with country status and life expectancy.

# A tibble: 2 × 5  
 term estimate std.error statistic p.value  
 <chr> <dbl> <dbl> <dbl> <dbl>  
1 (Intercept) 30.2 1.39 21.7 6.03e-104  
2 Life.expectancy -0.383 0.0181 -21.1 9.39e- 99

Life expectancy is negatively correlated with the country status of developing.

Then a linear regression comparing year to life expectancy.

# A tibble: 2 × 5  
 term estimate std.error statistic p.value  
 <chr> <dbl> <dbl> <dbl> <dbl>  
1 (Intercept) -636. 75.5 -8.42 5.96e-17  
2 Year 0.351 0.0376 9.33 1.96e-20

Year is positively correlated with life expectancy.

Another linear regression with BMI.

# A tibble: 2 × 5  
 term estimate std.error statistic p.value  
 <chr> <dbl> <dbl> <dbl> <dbl>  
1 (Intercept) 59.0 0.314 188. 0   
2 BMI 0.270 0.00727 37.1 8.92e-247

In this instance, BMI is positively correlated with life expectancy.

# A tibble: 2 × 5  
 term estimate std.error statistic p.value  
 <chr> <dbl> <dbl> <dbl> <dbl>  
1 (Intercept) 53.7 0.571 94.0 0   
2 Polio 0.189 0.00666 28.4 1.96e-156

Polio doesn’t seem significantly correlated.

# A tibble: 2 × 5  
 term estimate std.error statistic p.value  
 <chr> <dbl> <dbl> <dbl> <dbl>  
1 (Intercept) 69.5 0.178 391. 0   
2 Measles -0.000131 0.0000151 -8.63 9.73e-18

Measles does not seem significantly correlated with life expectancy.

# A tibble: 2 × 5  
 term estimate std.error statistic p.value  
 <chr> <dbl> <dbl> <dbl> <dbl>  
1 (Intercept) 69.4 0.944 73.5 1.75e-91  
2 Air.pollution -0.00000317 0.00000599 -0.530 5.97e- 1

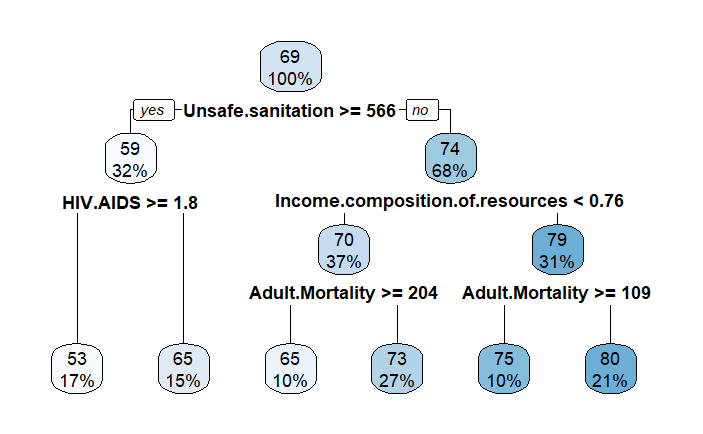
Air pollution is negatively correlated with life expectancy.

# A tibble: 2 × 5  
 term estimate std.error statistic p.value  
 <chr> <dbl> <dbl> <dbl> <dbl>  
1 (Intercept) 69.1 0.967 71.4 3.26e-90  
2 Low.physical.activity 0.0000368 0.0000482 0.763 4.47e- 1

## 4.3 Full analysis

Here is a decision tree model with the predictions for different stratum of life expectancy.

#Decision Tree Graphic  
#| label: fig-result5  
#| fig-cap: "Decision tree"  
#| echo: FALSE  
knitr::include\_graphics(here("results","tree.png"))



The initial split was on unsafe sanitation, with the split reported as yes further split with HIV and AIDS into the lower life expectancy strata. If there is no unsafe sanitation, it further is split into income composition of resources and then adult mortality. This a simpler and less nuanced model but has an overall look at the predictive value of the data.

# 5. Discussion

## 5.1 Summary and Interpretation

*Summarize what you did, what you found and what it means.*

## 5.2 Strengths and Limitations

Some strengths include how large and expansive the data set is, as it has many variables for nearly every country and with a large range of years. A weakness that goes along with that is that it was difficult to work with such a large data set and pick out what the most important things to explore were. Also life expectancy is a nuanced estimate that has to do with a combination of multiple factors and also things that are not included in the available data, so a truly accurate analysis may be out of my reach.

## 5.3 Conclusions

*What are the main take-home messages?*

# 6. References

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