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Handle:

Marathon Match

Contest: **Marathon Match**  
Problem: **ChildStuntedness**  
Coder: **RigelFive**

0) Score: 0.0 Run Time: 4308 ms

Example Case:

Seed: 1

Fatal Errors:

Standard Out:

```
startup = 0
Training Categories: 630
w categories: 630    d categories: 630

-----
Number of categories for p-weight and p-duration: 32
-----
Most likely weight: 0.653925
Most likely duration: 0.42701

-----
Duration Data Points: 3707    min: 0.358255    mean: 0.430298    max: 0.471963
Weight Data Points: 3707    min: 0.291667    mean: 0.640869    max: 1

-----
Birth events: 8 5 0 0 15 0 5 15 9 32 37 61 51 55 116 141 174 326 259 229 348 421 413 232 310 159 179 53 48 0 0 0
Total births: 8 13 13 13 28 28 33 48 57 89 126 187 238 293 409 550 724 1050 1309 1538 1886 2307 2720 2952 3262 3421 3600 36
Probability of births: 0.00216158 0.00351256 0.00351256 0.00351256 0.00756552 0.00756552 0.00891651 0.0129695 0.0154012 0.0
Birth durations: 0.358255 0.361809 0.365362 0.368915 0.372469 0.376022 0.379576 0.383129 0.386682 0.390236 0.393789 0.39734
-----
Number in weight: 4 0 5 0 14 12 70 33 55 112 139 272 217 288 305 423 354 313 289 239 174 98 119 88 35 0 12 30 0 0 0 0
Probability of weight class: 0.00108108 0 0.00135135 0 0.00378378 0.00324324 0.0189189 0.00891892 0.0148649 0.0302703 0.03
r {duration v. weight}: 0.991028    t-dist: 451.32

-----
Test Duration Data Points: 1944    min: 0.360032    mean: 0.428135    max: 0.454196
Test Weight Data Points: 1944    min: 0.347005    mean: 0.645432    max: 0.811849
```

Standard Error:

1) Score: 0.0 Run Time: 4275 ms

Example Case:

Seed: 2

Fatal Errors:

Standard Out:

```
startup = 0
Training Categories: 603
w categories: 603    d categories: 603

-----
Number of categories for p-weight and p-duration: 32
-----
Most likely weight: 0.540876
Most likely duration: 0.425769

-----
Duration Data Points: 3724    min: 0.338006    mean: 0.431299    max: 0.471963
Weight Data Points: 3724    min: 0.28869    mean: 0.644    max: 1

-----
Birth events: 3 0 0 0 0 9 0 5 5 0 20 8 10 21 61 42 88 147 243 175 370 478 284 462 479 234 269 209 49 34 7 6
Total births: 3 3 3 3 3 12 12 17 22 22 42 50 60 81 142 184 272 419 662 837 1207 1685 1969 2431 2910 3144 3413 3622 3671 37
Probability of births: 0.000806885 0.000806885 0.000806885 0.000806885 0.000806885 0.00322754 0.00322754 0.00457235 0.00591
Birth durations: 0.338006 0.342192 0.346379 0.350565 0.354751 0.358937 0.363123 0.367309 0.371495 0.375681 0.379868 0.38401
```

-----  
Number in weight: 7 0 5 0 15 22 27 59 37 81 151 247 215 314 288 396 354 376 303 208 192 118 100 98 36 19 18 24 0 0 7 7  
Probability of weight class: 0.0018797 0 0.00134264 0 0.00402793 0.00590763 0.00725027 0.0158432 0.00993555 0.0217508 0.041  
r {duration v. weight}: 0.998369 t-dist: 1066.72  
-----  
Test Duration Data Points: 1927 min: 0.390333 mean: 0.428158 max: 0.453125  
Test Weight Data Points: 1927 min: 0.410947 mean: 0.588851 max: 0.855515

Standard Error:

2) Score: 0.0 Run Time: 4292 ms

Example Case:

Seed: 3

Fatal Errors:

Standard Out:

startup = 0  
Training Categories: 674  
w categories: 674 d categories: 674  
-----  
Number of categories for p-weight and p-duration: 32  
-----  
Most likely weight: 0.644004  
Most likely duration: 0.392694  
-----  
Duration Data Points: 3723 min: 0.358255 mean: 0.430569 max: 0.468847  
Weight Data Points: 3723 min: 0.291667 mean: 0.642645 max: 1  
-----  
Birth events: 8 5 5 5 10 0 15 5 4 33 21 32 28 75 80 126 126 217 354 280 344 258 459 331 290 157 134 230 52 26 7 0  
Total births: 8 13 18 23 33 33 48 53 57 90 111 143 171 246 326 452 578 795 1149 1429 1773 2031 2490 2821 3111 3268 3402 363  
Probability of births: 0.00215227 0.00349744 0.00484262 0.00618779 0.00887813 0.00887813 0.0129136 0.0142588 0.0153349 0.02  
Birth durations: 0.358255 0.361711 0.365167 0.368623 0.372079 0.375535 0.378991 0.382447 0.385903 0.389359 0.392815 0.39627  
-----  
Number in weight: 4 5 0 0 20 5 42 30 51 118 154 288 233 281 374 307 316 353 288 256 217 114 103 61 54 12 18 12 0 0 0 0  
Probability of weight class: 0.00107643 0.00134553 0 0 0.00538213 0.00134553 0.0113025 0.0080732 0.0137244 0.0317546 0.0414  
r {duration v. weight}: 0.997027 t-dist: 789.366  
-----  
Test Duration Data Points: 1928 min: 0.384175 mean: 0.407367 max: 0.449839  
Test Weight Data Points: 1928 min: 0.457682 mean: 0.638929 max: 0.833984

Standard Error:

3) Score: 0.0 Run Time: 4311 ms

Example Case:

Seed: 4

Fatal Errors:

Standard Out:

startup = 0  
Training Categories: 669  
w categories: 669 d categories: 669  
-----  
Number of categories for p-weight and p-duration: 32  
-----  
Most likely weight: 0.56667  
Most likely duration: 0.427327  
-----  
Duration Data Points: 3720 min: 0.338006 mean: 0.429947 max: 0.471963  
Weight Data Points: 3720 min: 0.28869 mean: 0.640155 max: 1  
-----  
Birth events: 3 0 0 0 4 4 0 10 5 0 20 12 16 32 65 60 119 161 267 175 350 473 284 498 462 198 220 224 19 33 0 0  
Total births: 3 3 3 3 7 11 11 21 26 26 46 58 74 106 171 231 350 511 778 953 1303 1776 2060 2558 3020 3218 3438 3662 3681 37  
Probability of births: 0.000807754 0.000807754 0.000807754 0.000807754 0.00188476 0.00296177 0.00296177 0.00565428 0.007006  
Birth durations: 0.338006 0.342192 0.346379 0.350565 0.354751 0.358937 0.363123 0.367309 0.371495 0.375681 0.379868 0.38401  
-----  
Number in weight: 7 0 5 0 20 14 37 68 42 125 140 258 241 256 324 359 327 400 266 241 214 89 88 104 38 19 6 18 0 0 7 7  
Probability of weight class: 0.00188172 0 0.00134409 0 0.00537634 0.00376344 0.00994624 0.0182796 0.0112903 0.0336022 0.037

```
Probability of weight class: 0.00100172 0.00013495 0.00007004 0.00070041 0.00074024 0.0027750 0.0012000 0.0000022 0.000
r {duration v. weight}: 0.994146      t-dist: 561.068
-----
Test Duration Data Points: 1931      min: 0.381961      mean: 0.428112      max: 0.461497
Test Weight Data Points: 1931      min: 0.455404      mean: 0.592429      max: 0.988886
```

Standard Error:

4) Score: 0.0 Run Time: 4330 ms

Example Case:

Seed: 5

Fatal Errors:

Standard Out:

```
startup = 0
Training Categories: 596
w categories: 596      d categories: 596
-----
Number of categories for p-weight and p-duration: 32
-----
Most likely weight: 0.715433
Most likely duration: 0.414379
-----
Duration Data Points: 3736      min: 0.358255      mean: 0.430802      max: 0.461059
Weight Data Points: 3736      min: 0.291667      mean: 0.64308      max: 1
-----
Birth events: 8 5 0 0 10 5 5 20 5 3 27 11 34 20 45 105 110 136 207 245 243 269 367 297 313 369 279 148 148 172 71 59
Total births: 8 13 13 13 23 28 33 53 58 61 88 99 133 153 198 303 413 549 756 1001 1244 1513 1880 2177 2490 2859 3138 3286 3
Probability of births: 0.00214133 0.00347966 0.00347966 0.00347966 0.00615632 0.00749465 0.00883298 0.0141863 0.0155246 0.0
Birth durations: 0.358255 0.361468 0.364681 0.367893 0.371106 0.374319 0.377531 0.380744 0.383956 0.387169 0.390382 0.39355
-----
Number in weight: 4 5 5 0 21 9 28 33 66 98 167 231 246 308 353 391 243 352 361 216 196 100 133 84 37 12 12 18 0 0 0 0
Probability of weight class: 0.00107267 0.00134084 0.00134084 0 0.00563154 0.00241352 0.00750872 0.00884956 0.0176991 0.020
r {duration v. weight}: 0.989808      t-dist: 424.723
-----
Test Duration Data Points: 1915      min: 0.359862      mean: 0.422081      max: 0.45624
Test Weight Data Points: 1915      min: 0.501953      mean: 0.678513      max: 0.811849
```

Standard Error:

5) Score: 0.0 Run Time: 4310 ms

Example Case:

Seed: 6

Fatal Errors:

Standard Out:

```
startup = 0
Training Categories: 596
w categories: 596      d categories: 596
-----
Number of categories for p-weight and p-duration: 32
-----
Most likely weight: 0.816127
Most likely duration: 0.454926
-----
Duration Data Points: 3721      min: 0.358255      mean: 0.430564      max: 0.464174
Weight Data Points: 3721      min: 0.291667      mean: 0.640011      max: 0.968254
-----
Birth events: 8 5 5 5 5 0 0 20 7 10 21 27 35 51 59 143 146 166 187 223 268 336 331 430 322 315 178 121 174 58 38 27
Total births: 8 13 18 23 28 28 28 48 55 65 86 113 148 199 258 401 547 713 900 1123 1391 1727 2058 2488 2810 3125 3303 3424
Probability of births: 0.00214996 0.00349368 0.00483741 0.00618113 0.00752486 0.00752486 0.00752486 0.0128998 0.014781 0.01
Birth durations: 0.358255 0.361565 0.364875 0.368185 0.371495 0.374805 0.378115 0.381425 0.384735 0.388045 0.391355 0.39466
-----
Number in weight: 4 0 5 0 11 9 35 60 40 51 132 204 211 299 276 390 323 318 364 245 187 179 94 122 80 25 20 12 6 12 0 7
Probability of weight class: 0.00107498 0 0.00134372 0 0.00295619 0.0024187 0.00940607 0.0161247 0.0107498 0.013706 0.03547
r {duration v. weight}: 1      t-dist: inf
-----
Test Duration Data Points: 1930      min: 0.3897      mean: 0.443078      max: 0.454926
```

Test Weight Data Points: 1930      min: 0.450242      mean: 0.731996      max: 0.816127

Standard Error:

6) Score: 0.0 Run Time: 4330 ms

Example Case:

Seed: 7

Fatal Errors:

Standard Out:

```
startup = 0
Training Categories: 696
w categories: 696      d categories: 696
-----
Number of categories for p-weight and p-duration: 32
-----
Most likely weight: 0.546828
Most likely duration: 0.455315
-----
Duration Data Points: 3743      min: 0.338006      mean: 0.431339      max: 0.468847
Weight Data Points: 3743      min: 0.28869      mean: 0.646633      max: 1
-----
Birth events: 3 0 0 0 4 4 5 0 5 5 10 15 15 28 17 64 41 161 117 259 332 291 515 262 475 397 186 259 196 57 14 0
Total births: 3 3 3 3 7 11 16 16 21 26 36 51 66 94 111 175 216 377 494 753 1085 1376 1891 2153 2628 3025 3211 3470 3666 377
Probability of births: 0.000802783 0.000802783 0.000802783 0.000802783 0.00187316 0.00294354 0.00428151 0.00428151 0.005619
Birth durations: 0.338006 0.342095 0.346184 0.350273 0.354361 0.35845 0.362539 0.366628 0.370717 0.374805 0.378894 0.382983
-----
Number in weight: 7 0 10 0 5 17 14 51 46 105 117 227 197 304 327 402 334 434 285 239 237 98 100 81 37 13 24 18 0 0 7 7
Probability of weight class: 0.00187016 0 0.00267165 0 0.00133583 0.00454181 0.00374032 0.0136254 0.0122896 0.0280524 0.031
r {duration v. weight}: 0.993375      t-dist: 528.705
-----
Test Duration Data Points: 1908      min: 0.387072      mean: 0.44555      max: 0.458625
Test Weight Data Points: 1908      min: 0.410947      mean: 0.580605      max: 0.833287
```

Standard Error:

7) Score: 0.0 Run Time: 4314 ms

Example Case:

Seed: 8

Fatal Errors:

Standard Out:

```
startup = 0
Training Categories: 591
w categories: 591      d categories: 591
-----
Number of categories for p-weight and p-duration: 32
-----
Most likely weight: 0.544844
Most likely duration: 0.424163
-----
Duration Data Points: 3727      min: 0.338006      mean: 0.430526      max: 0.468847
Weight Data Points: 3727      min: 0.28869      mean: 0.643198      max: 1
-----
Birth events: 3 0 0 0 4 4 5 10 10 5 5 15 19 32 45 69 60 127 96 295 340 265 457 291 537 434 130 241 151 57 14 0
Total births: 3 3 3 3 7 11 16 26 36 41 46 61 80 112 157 226 286 413 509 804 1144 1409 1866 2157 2694 3128 3258 3499 3650 377
Probability of births: 0.000806235 0.000806235 0.000806235 0.000806235 0.00188121 0.00295619 0.00429992 0.00698737 0.009674
Birth durations: 0.338006 0.342095 0.346184 0.350273 0.354361 0.35845 0.362539 0.366628 0.370717 0.374805 0.378894 0.382983
-----
Number in weight: 7 0 5 0 10 17 38 50 42 114 136 213 236 325 316 407 324 360 283 227 217 93 102 83 54 12 18 24 0 0 7 7
Probability of weight class: 0.00187819 0 0.00134156 0 0.00268312 0.00456131 0.0101959 0.0134156 0.0112691 0.0305876 0.0364
r {duration v. weight}: 0.999578      t-dist: 2099.07
-----
Test Duration Data Points: 1924      min: 0.380938      mean: 0.427088      max: 0.458625
Test Weight Data Points: 1924      min: 0.455404      mean: 0.589513      max: 0.877744
```

Standard Error:

**Standard Error:**

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