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Handle:

Marathon Match

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

0) Score: 0.0 Run Time: 4284 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: 24
-----
Most likely weight: 0.657614
Most likely duration: 0.460313

-----
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: 13 0 0 15 5 15 19 48 72 72 116 175 262 377 349 468 468 478 310 246 145 48 0 6
Total births: 13 13 13 28 33 48 67 115 187 259 375 550 812 1189 1538 2006 2474 2952 3262 3508 3653 3701 3701 3707
Probability of births: 0.00350688 0.00350688 0.00350688 0.00755328 0.00890208 0.0129485 0.0180739 0.0310224 0.0504451 0.065
Birth durations: 0.358255 0.362993 0.367731 0.372469 0.377207 0.381944 0.386682 0.39142 0.396158 0.400896 0.405633 0.410371
-----
Number in weight: 4 5 0 19 38 72 84 164 330 309 398 526 484 421 290 201 146 132 35 0 42 0 0 0
Probability of weight class: 0.00108108 0.00135135 0 0.00513514 0.0102703 0.0194595 0.0227027 0.0443243 0.0891892 0.0835131
r {duration v. weight}: 0.991028    t-dist: 451.32
-----
Test Duration Data Points: 1944    min: 0.360624    mean: 0.445713    max: 0.460313
Test Weight Data Points: 1944    min: 0.335938    mean: 0.64718    max: 0.80816
```

Standard Error:

1) Score: 0.0 Run Time: 4277 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: 24
-----
Most likely weight: 0.544581
Most likely duration: 0.452947

-----
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 9 5 5 10 18 26 48 81 104 229 299 541 459 594 639 256 296 76 14 12
Total births: 3 3 3 3 12 17 22 32 50 76 124 205 309 538 837 1378 1837 2431 3070 3326 3622 3698 3712 3724
Probability of births: 0.000805585 0.000805585 0.000805585 0.000805585 0.00322234 0.00456498 0.00590763 0.00859291 0.013426
Birth durations: 0.338006 0.343588 0.349169 0.354751 0.360332 0.365914 0.371495 0.377077 0.382658 0.38824 0.393821 0.399401
```

Number in weight: 7 5 0 25 28 70 65 144 307 314 378 521 486 482 273 231 148 129 49 6 42 0 7 0
Probability of weight class: 0.00188324 0.00134517 0 0.00672585 0.00753296 0.0188324 0.0174872 0.0387409 0.0825935 0.084476
r {duration v. weight}: 0.998369 t-dist: 1066.72

Test Duration Data Points: 1927 min: 0.391031 mean: 0.442498 max: 0.452947
Test Weight Data Points: 1927 min: 0.407242 mean: 0.59055 max: 0.866629

Standard Error:

2) Score: 0.0 Run Time: 4298 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: 24

Most likely weight: 0.709201
Most likely duration: 0.435326

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 10 10 5 15 9 44 37 59 92 158 248 321 408 481 407 504 363 218 230 72 13 0
Total births: 8 13 23 33 38 53 62 106 143 202 294 452 700 1021 1429 1910 2317 2821 3184 3402 3632 3704 3717 3717
Probability of births: 0.00215227 0.00349744 0.00618779 0.00887813 0.0102233 0.0142588 0.0166801 0.0285176 0.0384719 0.0543
Birth durations: 0.358255 0.362863 0.367471 0.372079 0.376687 0.381295 0.385903 0.390511 0.395119 0.399727 0.404335 0.40894

Number in weight: 4 5 0 20 36 41 92 159 360 319 398 478 472 433 308 256 152 87 60 18 18 0 0 0
Probability of weight class: 0.00107643 0.00134553 0 0.00538213 0.00968784 0.0110334 0.0247578 0.0427879 0.0968784 0.085845
r {duration v. weight}: 0.997027 t-dist: 789.366

Test Duration Data Points: 1928 min: 0.383599 mean: 0.433157 max: 0.448111
Test Weight Data Points: 1928 min: 0.453993 mean: 0.678438 max: 0.837674

Standard Error:

3) Score: 0.0 Run Time: 4299 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: 24

Most likely weight: 0.578311
Most likely duration: 0.426467

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 4 4 10 5 15 17 27 72 95 132 242 327 494 489 622 599 219 286 39 13 6
Total births: 3 3 3 7 11 21 26 41 58 85 157 252 384 626 953 1447 1936 2558 3157 3376 3662 3701 3714 3720
Probability of births: 0.000806452 0.000806452 0.000806452 0.00188172 0.00295699 0.00564516 0.00698925 0.0110215 0.0155914
Birth durations: 0.338006 0.343588 0.349169 0.354751 0.360332 0.365914 0.371495 0.377077 0.382658 0.38824 0.393821 0.399405

Number in weight: 7 5 0 24 41 74 83 166 316 298 364 518 469 466 299 244 116 135 51 6 24 0 7 0
Probability of weight class: 0.00188527 0.00134662 0 0.00646378 0.0110423 0.01993 0.0223539 0.0447078 0.0851064 0.0802586 0.084476
r {duration v. weight}: 0.997027 t-dist: 789.366

```
Probability of weight class: 0.00100027 0.00101002 0.00000070 0.00100012 0.00000000 0.00200000 0.00100000 0.00000000 0.00000000 \
r {duration v. weight}: 0.994146      t-dist: 561.068
-----
Test Duration Data Points: 1931      min: 0.379868      mean: 0.427689      max: 0.458009
Test Weight Data Points: 1931      min: 0      mean: 0.598752      max: 0.807354
```

Standard Error:

4) Score: 13617.375628461326 Run Time: 4304 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: 24
-----
Most likely weight: 0.59313
Most likely duration: 0.446067
-----
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 15 0 25 8 27 11 48 51 70 145 243 345 394 328 454 534 307 268 239 152 52
Total births: 8 13 13 28 28 53 61 88 99 147 198 268 413 656 1001 1395 1723 2177 2711 3018 3286 3525 3677 3729
Probability of births: 0.00214535 0.00348619 0.00348619 0.00750872 0.00750872 0.0142129 0.0163583 0.0235988 0.0265487 0.035
Birth durations: 0.358255 0.362539 0.366822 0.371106 0.375389 0.379673 0.383956 0.38824 0.392523 0.396807 0.40109 0.405374
-----
Number in weight: 4 10 0 30 16 45 89 176 297 339 423 536 380 519 273 226 166 121 43 18 18 0 0 0
Probability of weight class: 0.00107267 0.00268168 0 0.00804505 0.00429069 0.0120676 0.023867 0.0471976 0.079646 0.0909091
r {duration v. weight}: 0.989808      t-dist: 424.723
-----
Test Duration Data Points: 1915      min: 0.360397      mean: 0.438525      max: 0.454634
Test Weight Data Points: 1915      min: 0.503183      mean: 0.614405      max: 0.80816
```

Standard Error:

5) Score: 0.0 Run Time: 4297 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: 24
-----
Most likely weight: 0.68473
Most likely duration: 0.449247
-----
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 10 5 0 20 7 26 32 50 95 143 146 272 304 382 553 430 322 408 206 219 51 20
Total births: 8 13 23 28 28 48 55 81 113 163 258 401 547 819 1123 1505 2058 2488 2810 3218 3424 3643 3694 3714
Probability of births: 0.00215401 0.00350027 0.00619278 0.00753904 0.00753904 0.0129241 0.0148088 0.0218094 0.0304254 0.042
Birth durations: 0.358255 0.362669 0.367082 0.371495 0.375909 0.380322 0.384735 0.389148 0.393562 0.397975 0.402388 0.40680
-----
Number in weight: 4 5 0 20 30 65 52 128 247 308 398 470 402 496 352 247 201 134 88 37 12 18 0 7
Probability of weight class: 0.00107498 0.00134372 0 0.0053749 0.00806235 0.0174684 0.0139747 0.0343994 0.06638 0.0827734 (
r {duration v. weight}: 1      t-dist: inf
-----
Test Duration Data Points: 1930      min: 0.391355      mean: 0.440089      max: 0.453141
```

Test Weight Data Points: 1930 min: 0.446718 mean: 0.662513 max: 0.813203

Standard Error:

6) Score: 0.0 Run Time: 4348 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: 24
-----
Most likely weight: 0.69339
Most likely duration: 0.40771
-----
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 4 9 0 10 0 25 32 11 81 104 215 259 332 652 416 585 473 259 220 40 7
Total births: 3 3 3 7 16 16 26 26 51 83 94 175 279 494 753 1085 1737 2153 2738 3211 3470 3690 3730 3737
Probability of births: 0.000802783 0.000802783 0.000802783 0.00187316 0.00428151 0.00428151 0.00695745 0.00695745 0.0136477
Birth durations: 0.338006 0.343458 0.34891 0.354361 0.359813 0.365265 0.370717 0.376168 0.38162 0.387072 0.392523 0.397975
-----
Number in weight: 7 10 0 15 16 56 80 129 286 285 387 558 512 473 307 282 123 111 44 6 42 0 7 0
Probability of weight class: 0.00187366 0.00267666 0 0.00401499 0.00428266 0.0149893 0.0214133 0.0345289 0.0765525 0.076284
r {duration v. weight}: 0.993375      t-dist: 528.705
-----
Test Duration Data Points: 1908      min: 0.387072      mean: 0.417765      max: 0.46067
Test Weight Data Points: 1908      min: 0.422061      mean: 0.665857      max: 0.836992
```

Standard Error:

7) Score: 0.0 Run Time: 4309 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: 24
-----
Most likely weight: 0.643787
Most likely duration: 0.437305
-----
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 4 9 10 15 0 20 35 28 102 106 177 295 340 554 459 672 429 241 189 26 7
Total births: 3 3 3 7 16 26 41 41 61 96 124 226 332 509 804 1144 1698 2157 2829 3258 3499 3688 3714 3721
Probability of births: 0.000806235 0.000806235 0.000806235 0.00188121 0.00429992 0.00698737 0.0110185 0.0110185 0.0163934
Birth durations: 0.338006 0.343458 0.34891 0.354361 0.359813 0.365265 0.370717 0.376168 0.38162 0.387072 0.392523 0.397975
-----
Number in weight: 7 5 0 10 49 56 83 150 272 329 387 568 491 425 278 251 137 107 60 6 42 0 7 0
Probability of weight class: 0.00188172 0.00134409 0 0.00268817 0.013172 0.0150538 0.0223118 0.0403226 0.0731183 0.0884409
r {duration v. weight}: 0.999578      t-dist: 2099.07
-----
Test Duration Data Points: 1924      min: 0.384346      mean: 0.43401      max: 0.455218
Test Weight Data Points: 1924      min: 0.451699      mean: 0.640862      max: 0.896267
```

Standard Error:

8) Score: 0.0 Run Time: 4313 ms

Example Case:

Seed: 9

Fatal Errors:

Standard Out:

```
startup = 0
Training Categories: 699
w categories: 699    d categories: 699
-----
Number of categories for p-weight and p-duration: 24
-----
Most likely weight: 0.71317
Most likely duration: 0.444672
-----
Duration Data Points: 3742    min: 0.361371    mean: 0.431434    max: 0.471963
Weight Data Points: 3742    min: 0.291667    mean: 0.645486    max: 1
-----
Birth events: 9 0 15 5 15 3 28 38 34 79 120 173 340 361 451 444 523 426 281 255 89 47 0 0
Total births: 9 9 24 29 44 47 75 113 147 226 346 519 859 1220 1671 2115 2638 3064 3345 3600 3689 3736 3736 3736
Probability of births: 0.00240899 0.00240899 0.00642398 0.00776231 0.0117773 0.0125803 0.0200749 0.0302463 0.0393469 0.0604
Birth durations: 0.361371 0.365979 0.370587 0.375195 0.379803 0.384411 0.389019 0.393627 0.398235 0.402843 0.407451 0.41205
-----
Number in weight: 4 10 0 21 39 58 95 123 315 301 424 514 470 435 306 226 153 132 60 18 24 0 7 0
Probability of weight class: 0.00107095 0.00267738 0 0.00562249 0.0104418 0.0155288 0.0254351 0.0329317 0.0843373 0.080589
r {duration v. weight}: 0.992152    t-dist: 485.263
-----
Test Duration Data Points: 1909    min: 0.372891    mean: 0.439023    max: 0.455835
Test Weight Data Points: 1909    min: 0.335938    mean: 0.68392    max: 0.837674
```

Standard Error:

9) Score: 0.0 Run Time: 4307 ms

Example Case:

Seed: 10

Fatal Errors:

Standard Out:

```
startup = 0
Training Categories: 617
w categories: 617    d categories: 617
-----
Number of categories for p-weight and p-duration: 24
-----
Most likely weight: 0.633805
Most likely duration: 0.446229
-----
Duration Data Points: 3718    min: 0.361371    mean: 0.431372    max: 0.471963
Weight Data Points: 3718    min: 0.291667    mean: 0.642709    max: 1
-----
Birth events: 4 0 15 0 20 5 32 37 58 49 124 189 338 345 499 399 521 424 238 253 96 53 7 6
Total births: 4 4 19 19 39 44 76 113 171 220 344 533 871 1216 1715 2114 2635 3059 3297 3550 3646 3699 3706 3712
Probability of births: 0.00107759 0.00107759 0.00511853 0.00511853 0.0105065 0.0118534 0.0204741 0.0304418 0.0460668 0.0592
Birth durations: 0.361371 0.365979 0.370587 0.375195 0.379803 0.384411 0.389019 0.393627 0.398235 0.402843 0.407451 0.41205
-----
Number in weight: 4 10 0 19 34 63 91 143 360 305 363 534 456 422 316 258 141 104 39 12 30 0 7 0
Probability of weight class: 0.00107788 0.00269469 0 0.00511991 0.00916195 0.0169766 0.0245217 0.0385341 0.0970089 0.082188
r {duration v. weight}: 0.999599    t-dist: 2152.13
-----
Test Duration Data Points: 1933    min: 0.372891    mean: 0.438688    max: 0.449691
Test Weight Data Points: 1933    min: 0.424479    mean: 0.636545    max: 0.80816
```

Standard Error:

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