**«Methods of Statistic Data Computer Processing»**

**Initial data**

Variant 1

**The first part**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | **Time, ms** | **N** | **Time, ms** | **N** | **Time, ms** | **N** | **Time, ms** | **N** | **Time, ms** |
|  | 9.17 |  | 8.19 |  | 10.85 |  | 7.89 |  | 10.82 |
|  | 8.16 |  | 9.21 |  | 10.64 |  | 9.00 |  | 8.91 |
|  | 9.26 |  | 11.68 |  | 10.70 |  | 9.96 |  | 12.06 |
|  | 11.06 |  | 9.61 |  | 8.64 |  | 10.33 |  | 9.07 |
|  | 11.01 |  | 8.46 |  | 10.20 |  | 9.87 |  | 10.70 |
|  | 10.51 |  | 9.86 |  | 12.32 |  | 7.34 |  | 10.76 |
|  | 9.51 |  | 10.56 |  | 9.84 |  | 10.85 |  | 10.00 |
|  | 9.83 |  | 11.11 |  | 9.99 |  | 9.43 |  | 9.47 |
|  | 12.53 |  | 10.28 |  | 9.47 |  | 8.69 |  | 9.40 |
|  | 11.00 |  | 9.15 |  | 9.67 |  | 9.51 |  | 9.02 |

**ms - milliseconds**

**The second part**

Normal distribution with parameters (0,1)

Variant 2

**The first part**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | | **KB** | | **N** | | **KB** | | **N** | | **KB** | **N** | | **KB** | **N** | | **KB** |
|  | 166.260 | |  | | 140.457 | |  | | 107.843 | |  | 150.754 | |  | 129.385 | |
|  | 136.987 | |  | | 121.608 | |  | | 160.994 | |  | 115.226 | |  | 189.906 | |
|  | 184.101 | |  | | 104.780 | |  | | 122.195 | |  | 157.685 | |  | 119.495 | |
|  | 130.129 | |  | | 131.683 | |  | | 110.360 | |  | 141.691 | |  | 172.486 | |
|  | 156.878 | |  | | 203.417 | |  | | 167.740 | |  | 225.632 | |  | 195.693 | |
|  | 181.368 | |  | | 129.414 | |  | | 148.520 | |  | 123.626 | |  | 182.054 | |
|  | 72.922 | |  | | 120.396 | |  | | 138.685 | |  | 145.410 | |  | 147.292 | |
|  | 221.091 | |  | | 146.948 | |  | | 88.493 | |  | 111.163 | |  | 134.771 | |
|  | 116.721 | |  | | 119.247 | |  | | 138.499 | |  | 161.357 | |  | 172.001 | |
|  | 208.333 | |  | | 132.010 | |  | | 114.477 | |  | 118.939 | |  | 116.007 | |

**KB - Kilobytes**

**The second part**

Exponential distribution with parameters (0.25)

Variant 3

**The first part**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | | **Time, ms** | **N** | | **Time, ms** | **N** | | **Time, ms** | **N** | | **Time, ms** | **N** | | **Time, ms** |
|  | 0.052963 | |  | 3.298787 | |  | 1.03795 | |  | 4.242932 | |  | 0.850467 | |
|  | 2.532267 | |  | 12.76023 | |  | 0.848656 | |  | 0.813793 | |  | 0.898316 | |
|  | 4.299751 | |  | 11.14728 | |  | 1.97796 | |  | 1.113345 | |  | 7.044539 | |
|  | 11.3463 | |  | 0.21903 | |  | 1.17788 | |  | 0.878499 | |  | 6.585977 | |
|  | 1.276929 | |  | 5.289252 | |  | 1.750183 | |  | 1.125134 | |  | 1.331388 | |
|  | 3.113239 | |  | 1.860409 | |  | 2.160191 | |  | 4.931104 | |  | 7.277061 | |
|  | 6.520638 | |  | 1.092277 | |  | 5.52703 | |  | 2.0466 | |  | 31.64908 | |
|  | 1.126105 | |  | 4.014729 | |  | 11.08048 | |  | 2.907282 | |  | 4.897739 | |
|  | 7.597483 | |  | 0.039749 | |  | 1.005327 | |  | 1.066535 | |  | 18.52794 | |
|  | 1.826153 | |  | 1.030677 | |  | 1.988382 | |  | 1.752263 | |  | 9.430789 | |

**ms - milliseconds**

**The second part**

Fisher distribution with parameters (1, 10)

Variant 4

**The first part**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | **Time, sec** | **N** | | **Time, sec** | **N** | **Time, sec** | **N** | **Time, sec** | **N** | **Time, sec** |
| 1 | 16.79273 | 11 | 29.95439 | | 21 | 6.887297 | 31 | 11.41573 | 41 | 2.205995 |
| 2 | 36.12724 | 12 | 30.85881 | | 22 | 8.333646 | 32 | 22.21975 | 42 | 13.68974 |
| 3 | 18.69512 | 13 | 21.28 | | 23 | 30.42941 | 33 | 13.59316 | 43 | 25.76189 |
| 4 | 28.62663 | 14 | 15.91482 | | 24 | 15.16483 | 34 | 44.5965 | 44 | 7.452462 |
| 5 | 7.526134 | 15 | 8.612419 | | 25 | 11.47848 | 35 | 84.17826 | 45 | 18.63769 |
| 6 | 3.749114 | 16 | 46.22149 | | 26 | 50.51732 | 36 | 28.50696 | 46 | 18.59434 |
| 7 | 14.34667 | 17 | 34.38453 | | 27 | 18.80735 | 37 | 1.494324 | 47 | 101.1928 |
| 8 | 33.0124 | 18 | 1.200518 | | 28 | 99.35663 | 38 | 10.94708 | 48 | 6.35527 |
| 9 | 6.804784 | 19 | 35.97177 | | 29 | 23.33872 | 39 | 2.723101 | 49 | 43.75193 |
| 10 | 24.44514 | 20 | 3.324442 | | 30 | 20.76834 | 40 | 3.44372 | 50 | 31.89309 |

**sec - seconds**

**The second part**

Fisher distribution with parameters (10, 10)

Variant 5

**The first part**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | **Time, sec** | **N** | **Time, sec** | **N** | **Time, sec** | **N** | **Time, sec** | **N** | **Time, sec** |
| 1 | 58.55847 | 11 | 19.27749 | 21 | 33.84446 | 31 | 10.51224 | 41 | 41.91042 |
| 2 | 82.24175 | 12 | 50.86931 | 22 | 36.75691 | 32 | 37.94899 | 42 | 29.9689 |
| 3 | 8.077601 | 13 | 17.07092 | 23 | 7.879557 | 33 | 27.20525 | 43 | 44.187 |
| 4 | 24.01651 | 14 | 9.478954 | 24 | 31.03201 | 34 | 40.43858 | 44 | 17.43435 |
| 5 | 27.21229 | 15 | 30.83433 | 25 | 9.628031 | 35 | 74.80994 | 45 | 13.14346 |
| 6 | 18.79626 | 16 | 57.06318 | 26 | 46.81844 | 36 | 22.7338 | 46 | 32.12396 |
| 7 | 20.90885 | 17 | 27.87597 | 27 | 91.5818 | 37 | 19.66661 | 47 | 16.42346 |
| 8 | 30.82013 | 18 | 12.30092 | 28 | 26.87402 | 38 | 43.19004 | 48 | 52.4686 |
| 9 | 72.05173 | 19 | 27.68725 | 29 | 33.0485 | 39 | 16.74302 | 49 | 48.69514 |
| 10 | 84.8342 | 20 | 4.722362 | 30 | 36.27468 | 40 | 81.64572 | 50 | 35.49638 |

**sec - seconds**

**The second part**

Chi-squared distribution with parameters (10)

Variant 6

**The first part**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | **Time, ms** | **N** | **Time, ms** | **N** | **Time, ms** | **N** | **Time, ms** | **N** | **Time, ms** |
| 1 | 3.553308 | 11 | 6.593127 | 21 | 10.16832 | 31 | 7.497966 | 41 | 6.21842 |
| 2 | 8.63679 | 12 | 8.622021 | 22 | 4.890935 | 32 | 7.208486 | 42 | 6.762841 |
| 3 | 5.732132 | 13 | 8.721545 | 23 | 2.295151 | 33 | 9.32697 | 43 | 7.90406 |
| 4 | 5.97475 | 14 | 11.53159 | 24 | 12.50815 | 34 | 6.81064 | 44 | 3.62052 |
| 5 | 2.787856 | 15 | 1.657281 | 25 | 5.781312 | 35 | 5.89263 | 45 | 7.182617 |
| 6 | 6.166378 | 16 | 9.554053 | 26 | 9.329844 | 36 | 2.279858 | 46 | 13.85281 |
| 7 | 13.35642 | 17 | 5.468242 | 27 | 7.61584 | 37 | 1.71509 | 47 | 13.37823 |
| 8 | 4.113913 | 18 | 6.505312 | 28 | 4.226637 | 38 | 4.227434 | 48 | 1.42487 |
| 9 | 2.808882 | 19 | 3.927643 | 29 | 2.484285 | 39 | 2.521271 | 49 | 4.840441 |
| 10 | 1.041754 | 20 | 14.09335 | 30 | 2.391947 | 40 | 7.637664 | 50 | 7.305848 |

**ms - milliseconds**

**The second part**

Fisher distribution with parameters (3, 12)

Variant 7

**The first part**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | **Time, sec** | **N** | **Time, sec** | **N** | **Time, sec** | **N** | **Time, sec** | **N** | **Time, sec** |
| 1 | 8.995239 | 11 | 10.3791 | 21 | 10.65112 | 31 | 10.29072 | 41 | 11.73245 |
| 2 | 11.28708 | 12 | 12.177 | 22 | 10.11481 | 32 | 9.910492 | 42 | 9.863988 |
| 3 | 10.99882 | 13 | 10.73668 | 23 | 9.010082 | 33 | 9.779086 | 43 | 9.291233 |
| 4 | 9.275509 | 14 | 10.55316 | 24 | 9.460433 | 34 | 9.521998 | 44 | 10.37147 |
| 5 | 10.4274 | 15 | 9.886347 | 25 | 8.981971 | 35 | 11.50641 | 45 | 9.885962 |
| 6 | 9.870548 | 16 | 10.67504 | 26 | 9.735594 | 36 | 9.352281 | 46 | 11.26857 |
| 7 | 8.742812 | 17 | 9.882342 | 27 | 7.613926 | 37 | 10.08367 | 47 | 9.950677 |
| 8 | 10.19566 | 18 | 11.98412 | 28 | 9.816566 | 38 | 10.22209 | 48 | 10.81674 |
| 9 | 10.91549 | 19 | 11.21259 | 29 | 7.400599 | 39 | 8.69556 | 49 | 8.637886 |
| 10 | 8.93297 | 20 | 9.851547 | 30 | 8.666347 | 40 | 10.27742 | 50 | 10.06089 |

**sec - seconds**

**The second part**

Fisher distribution with parameters (2, 11)

Variant 8

**The first part**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **N** | **Time, h** | **N** | **Time, h** | **N** | **Time, h** | **N** | **Time, h** | **N** | **Time, h** |
| 1 | 114.417 | 11 | 98.136 | 21 | 89.847 | 31 | 139.267 | 41 | 81.892 |
| 2 | 92.281 | 12 | 105.946 | 22 | 83.685 | 32 | 107.990 | 42 | 106.301 |
| 3 | 95.630 | 13 | 108.611 | 23 | 97.762 | 33 | 88.402 | 43 | 100.883 |
| 4 | 74.513 | 14 | 98.019 | 24 | 89.253 | 34 | 122.078 | 44 | 93.311 |
| 5 | 80.665 | 15 | 123.622 | 25 | 104.076 | 35 | 122.978 | 45 | 97.911 |
| 6 | 104.627 | 16 | 113.675 | 26 | 82.725 | 36 | 85.609 | 46 | 139.483 |
| 7 | 107.779 | 17 | 120.288 | 27 | 120.159 | 37 | 79.313 | 47 | 122.277 |
| 8 | 69.568 | 18 | 89.445 | 28 | 105.934 | 38 | 109.176 | 48 | 99.079 |
| 9 | 100.927 | 19 | 104.986 | 29 | 97.940 | 39 | 94.543 | 49 | 72.252 |
| 10 | 95.054 | 20 | 111.995 | 30 | 132.867 | 40 | 87.072 | 50 | 114.212 |

**h - hours**

**The second part**

Student’s distribution with parameters (7)