

## **noraml\_run**

/home/jks/sharpi/nsu\_labs/strategy\_hackathon/strategy\_hackathon/bin/Debug/net8.0/strategy\_hackathon

Harmonic Mean for Run 1: 16.68

Harmonic Mean for Run 2: 16.42

Harmonic Mean for Run 3: 16.58

Harmonic Mean for Run 4: 17.27

Harmonic Mean for Run 5: 17.24

Harmonic Mean for Run 6: 16.36

Harmonic Mean for Run 7: 16.41

Harmonic Mean for Run 8: 16.89

Harmonic Mean for Run 9: 17.32

Harmonic Mean for Run 10: 16.23

Harmonic Mean for Run 11: 17.00

Harmonic Mean for Run 12: 17.30

Harmonic Mean for Run 13: 16.93

Harmonic Mean for Run 14: 17.17

Harmonic Mean for Run 15: 16.69

Harmonic Mean for Run 16: 16.58

Harmonic Mean for Run 17: 17.06

Harmonic Mean for Run 18: 16.86

Harmonic Mean for Run 19: 16.52

Harmonic Mean for Run 20: 16.31

Harmonic Mean for Run 21: 16.66

Harmonic Mean for Run 22: 16.53

Harmonic Mean for Run 23: 16.76

Harmonic Mean for Run 24: 16.93

Harmonic Mean for Run 25: 16.68

Harmonic Mean for Run 26: 16.56

Harmonic Mean for Run 27: 15.99  
Harmonic Mean for Run 28: 16.50  
Harmonic Mean for Run 29: 17.00  
Harmonic Mean for Run 30: 16.55  
Harmonic Mean for Run 31: 17.01  
Harmonic Mean for Run 32: 17.24  
Harmonic Mean for Run 33: 16.57  
Harmonic Mean for Run 34: 16.39  
Harmonic Mean for Run 35: 16.82  
Harmonic Mean for Run 36: 16.95  
Harmonic Mean for Run 37: 17.29  
Harmonic Mean for Run 38: 16.07  
Harmonic Mean for Run 39: 16.97  
Harmonic Mean for Run 40: 16.12  
Harmonic Mean for Run 41: 16.74  
Harmonic Mean for Run 42: 17.34  
Harmonic Mean for Run 43: 16.97  
Harmonic Mean for Run 44: 16.97  
Harmonic Mean for Run 45: 16.79  
Harmonic Mean for Run 46: 16.74  
Harmonic Mean for Run 47: 17.13  
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Harmonic Mean for Run 49: 16.46  
Harmonic Mean for Run 50: 16.78  
Harmonic Mean for Run 51: 17.16  
Harmonic Mean for Run 52: 16.73  
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Harmonic Mean for Run 54: 17.19  
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Harmonic Mean for Run 57: 16.45  
Harmonic Mean for Run 58: 16.50  
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Harmonic Mean for Run 61: 16.07  
Harmonic Mean for Run 62: 16.60  
Harmonic Mean for Run 63: 16.18  
Harmonic Mean for Run 64: 16.99  
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Harmonic Mean for Run 71: 17.01  
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Harmonic Mean for Run 74: 16.94  
Harmonic Mean for Run 75: 16.92  
Harmonic Mean for Run 76: 16.86  
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Harmonic Mean for Run 78: 16.55  
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Harmonic Mean for Run 101: 16.57  
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Harmonic Mean for Run 584: 17.21  
Harmonic Mean for Run 585: 16.03  
Harmonic Mean for Run 586: 16.52  
Harmonic Mean for Run 587: 16.25  
Harmonic Mean for Run 588: 16.57  
Harmonic Mean for Run 589: 16.57  
Harmonic Mean for Run 590: 16.58  
Harmonic Mean for Run 591: 16.79  
Harmonic Mean for Run 592: 16.28  
Harmonic Mean for Run 593: 17.16  
Harmonic Mean for Run 594: 16.48  
Harmonic Mean for Run 595: 17.40  
Harmonic Mean for Run 596: 17.69

Harmonic Mean for Run 597: 16.91  
Harmonic Mean for Run 598: 16.11  
Harmonic Mean for Run 599: 16.74  
Harmonic Mean for Run 600: 16.84  
Harmonic Mean for Run 601: 16.37  
Harmonic Mean for Run 602: 16.99  
Harmonic Mean for Run 603: 16.78  
Harmonic Mean for Run 604: 16.41  
Harmonic Mean for Run 605: 16.69  
Harmonic Mean for Run 606: 16.80  
Harmonic Mean for Run 607: 16.87  
Harmonic Mean for Run 608: 17.03  
Harmonic Mean for Run 609: 16.35  
Harmonic Mean for Run 610: 16.98  
Harmonic Mean for Run 611: 17.04  
Harmonic Mean for Run 612: 16.88  
Harmonic Mean for Run 613: 17.10  
Harmonic Mean for Run 614: 16.96  
Harmonic Mean for Run 615: 16.57  
Harmonic Mean for Run 616: 16.43  
Harmonic Mean for Run 617: 16.91  
Harmonic Mean for Run 618: 17.28  
Harmonic Mean for Run 619: 16.94  
Harmonic Mean for Run 620: 17.03  
Harmonic Mean for Run 621: 16.76  
Harmonic Mean for Run 622: 17.43  
Harmonic Mean for Run 623: 16.53  
Harmonic Mean for Run 624: 16.98  
Harmonic Mean for Run 625: 17.34  
Harmonic Mean for Run 626: 16.37

Harmonic Mean for Run 627: 17.50  
Harmonic Mean for Run 628: 16.89  
Harmonic Mean for Run 629: 16.76  
Harmonic Mean for Run 630: 17.04  
Harmonic Mean for Run 631: 16.71  
Harmonic Mean for Run 632: 16.75  
Harmonic Mean for Run 633: 17.41  
Harmonic Mean for Run 634: 17.19  
Harmonic Mean for Run 635: 17.08  
Harmonic Mean for Run 636: 16.80  
Harmonic Mean for Run 637: 16.72  
Harmonic Mean for Run 638: 17.49  
Harmonic Mean for Run 639: 16.97  
Harmonic Mean for Run 640: 16.82  
Harmonic Mean for Run 641: 16.93  
Harmonic Mean for Run 642: 16.19  
Harmonic Mean for Run 643: 16.31  
Harmonic Mean for Run 644: 16.28  
Harmonic Mean for Run 645: 17.00  
Harmonic Mean for Run 646: 16.99  
Harmonic Mean for Run 647: 16.78  
Harmonic Mean for Run 648: 16.62  
Harmonic Mean for Run 649: 16.27  
Harmonic Mean for Run 650: 16.59  
Harmonic Mean for Run 651: 16.66  
Harmonic Mean for Run 652: 16.97  
Harmonic Mean for Run 653: 16.96  
Harmonic Mean for Run 654: 16.47  
Harmonic Mean for Run 655: 16.70  
Harmonic Mean for Run 656: 16.25

Harmonic Mean for Run 657: 16.83  
Harmonic Mean for Run 658: 16.22  
Harmonic Mean for Run 659: 17.11  
Harmonic Mean for Run 660: 17.17  
Harmonic Mean for Run 661: 17.23  
Harmonic Mean for Run 662: 16.50  
Harmonic Mean for Run 663: 16.34  
Harmonic Mean for Run 664: 16.62  
Harmonic Mean for Run 665: 16.57  
Harmonic Mean for Run 666: 16.79  
Harmonic Mean for Run 667: 16.91  
Harmonic Mean for Run 668: 17.34  
Harmonic Mean for Run 669: 16.98  
Harmonic Mean for Run 670: 17.00  
Harmonic Mean for Run 671: 17.01  
Harmonic Mean for Run 672: 16.71  
Harmonic Mean for Run 673: 16.55  
Harmonic Mean for Run 674: 16.59  
Harmonic Mean for Run 675: 16.66  
Harmonic Mean for Run 676: 16.63  
Harmonic Mean for Run 677: 16.54  
Harmonic Mean for Run 678: 17.16  
Harmonic Mean for Run 679: 15.97  
Harmonic Mean for Run 680: 17.06  
Harmonic Mean for Run 681: 17.00  
Harmonic Mean for Run 682: 16.49  
Harmonic Mean for Run 683: 16.61  
Harmonic Mean for Run 684: 16.82  
Harmonic Mean for Run 685: 17.28  
Harmonic Mean for Run 686: 16.38

Harmonic Mean for Run 687: 16.58  
Harmonic Mean for Run 688: 16.73  
Harmonic Mean for Run 689: 16.68  
Harmonic Mean for Run 690: 16.28  
Harmonic Mean for Run 691: 16.96  
Harmonic Mean for Run 692: 17.08  
Harmonic Mean for Run 693: 17.08  
Harmonic Mean for Run 694: 17.40  
Harmonic Mean for Run 695: 17.64  
Harmonic Mean for Run 696: 16.57  
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Harmonic Mean for Run 698: 16.57  
Harmonic Mean for Run 699: 16.99  
Harmonic Mean for Run 700: 16.90  
Harmonic Mean for Run 701: 16.71  
Harmonic Mean for Run 702: 16.88  
Harmonic Mean for Run 703: 16.75  
Harmonic Mean for Run 704: 17.31  
Harmonic Mean for Run 705: 17.12  
Harmonic Mean for Run 706: 16.70  
Harmonic Mean for Run 707: 16.69  
Harmonic Mean for Run 708: 16.84  
Harmonic Mean for Run 709: 16.79  
Harmonic Mean for Run 710: 17.31  
Harmonic Mean for Run 711: 16.92  
Harmonic Mean for Run 712: 16.95  
Harmonic Mean for Run 713: 16.80  
Harmonic Mean for Run 714: 16.55  
Harmonic Mean for Run 715: 15.98  
Harmonic Mean for Run 716: 16.39



Harmonic Mean for Run 717: 17.30  
Harmonic Mean for Run 718: 16.50  
Harmonic Mean for Run 719: 16.85  
Harmonic Mean for Run 720: 16.97  
Harmonic Mean for Run 721: 16.84  
Harmonic Mean for Run 722: 16.59  
Harmonic Mean for Run 723: 17.26  
Harmonic Mean for Run 724: 17.10  
Harmonic Mean for Run 725: 17.04  
Harmonic Mean for Run 726: 16.76  
Harmonic Mean for Run 727: 16.77  
Harmonic Mean for Run 728: 16.74  
Harmonic Mean for Run 729: 16.53  
Harmonic Mean for Run 730: 17.01  
Harmonic Mean for Run 731: 16.72  
Harmonic Mean for Run 732: 16.49  
Harmonic Mean for Run 733: 17.25  
Harmonic Mean for Run 734: 16.80  
Harmonic Mean for Run 735: 16.86  
Harmonic Mean for Run 736: 17.42  
Harmonic Mean for Run 737: 16.71  
Harmonic Mean for Run 738: 16.73  
Harmonic Mean for Run 739: 17.11  
Harmonic Mean for Run 740: 16.36  
Harmonic Mean for Run 741: 16.53  
Harmonic Mean for Run 742: 16.75  
Harmonic Mean for Run 743: 17.40  
Harmonic Mean for Run 744: 16.81  
Harmonic Mean for Run 745: 17.01  
Harmonic Mean for Run 746: 16.60

Harmonic Mean for Run 747: 16.46  
Harmonic Mean for Run 748: 17.20  
Harmonic Mean for Run 749: 17.23  
Harmonic Mean for Run 750: 16.47  
Harmonic Mean for Run 751: 16.33  
Harmonic Mean for Run 752: 16.91  
Harmonic Mean for Run 753: 16.94  
Harmonic Mean for Run 754: 16.71  
Harmonic Mean for Run 755: 16.27  
Harmonic Mean for Run 756: 16.90  
Harmonic Mean for Run 757: 16.03  
Harmonic Mean for Run 758: 16.76  
Harmonic Mean for Run 759: 16.93  
Harmonic Mean for Run 760: 16.86  
Harmonic Mean for Run 761: 16.81  
Harmonic Mean for Run 762: 17.31  
Harmonic Mean for Run 763: 16.88  
Harmonic Mean for Run 764: 16.37  
Harmonic Mean for Run 765: 17.00  
Harmonic Mean for Run 766: 16.31  
Harmonic Mean for Run 767: 16.86  
Harmonic Mean for Run 768: 16.51  
Harmonic Mean for Run 769: 17.49  
Harmonic Mean for Run 770: 16.29  
Harmonic Mean for Run 771: 16.76  
Harmonic Mean for Run 772: 16.99  
Harmonic Mean for Run 773: 16.15  
Harmonic Mean for Run 774: 16.76  
Harmonic Mean for Run 775: 17.23  
Harmonic Mean for Run 776: 16.41

Harmonic Mean for Run 777: 16.41  
Harmonic Mean for Run 778: 16.42  
Harmonic Mean for Run 779: 16.01  
Harmonic Mean for Run 780: 17.27  
Harmonic Mean for Run 781: 17.12  
Harmonic Mean for Run 782: 16.86  
Harmonic Mean for Run 783: 17.11  
Harmonic Mean for Run 784: 16.47  
Harmonic Mean for Run 785: 16.21  
Harmonic Mean for Run 786: 16.65  
Harmonic Mean for Run 787: 16.45  
Harmonic Mean for Run 788: 16.71  
Harmonic Mean for Run 789: 16.71  
Harmonic Mean for Run 790: 16.67  
Harmonic Mean for Run 791: 16.47  
Harmonic Mean for Run 792: 16.66  
Harmonic Mean for Run 793: 16.84  
Harmonic Mean for Run 794: 16.53  
Harmonic Mean for Run 795: 16.82  
Harmonic Mean for Run 796: 16.50  
Harmonic Mean for Run 797: 16.87  
Harmonic Mean for Run 798: 16.91  
Harmonic Mean for Run 799: 17.01  
Harmonic Mean for Run 800: 16.77  
Harmonic Mean for Run 801: 17.44  
Harmonic Mean for Run 802: 17.12  
Harmonic Mean for Run 803: 16.84  
Harmonic Mean for Run 804: 16.64  
Harmonic Mean for Run 805: 16.43  
Harmonic Mean for Run 806: 17.21

Harmonic Mean for Run 807: 16.69  
Harmonic Mean for Run 808: 16.57  
Harmonic Mean for Run 809: 16.85  
Harmonic Mean for Run 810: 16.86  
Harmonic Mean for Run 811: 16.63  
Harmonic Mean for Run 812: 16.09  
Harmonic Mean for Run 813: 16.86  
Harmonic Mean for Run 814: 16.64  
Harmonic Mean for Run 815: 16.73  
Harmonic Mean for Run 816: 16.73  
Harmonic Mean for Run 817: 16.49  
Harmonic Mean for Run 818: 17.31  
Harmonic Mean for Run 819: 16.09  
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Harmonic Mean for Run 822: 16.03  
Harmonic Mean for Run 823: 17.06  
Harmonic Mean for Run 824: 16.64  
Harmonic Mean for Run 825: 16.65  
Harmonic Mean for Run 826: 16.54  
Harmonic Mean for Run 827: 16.82  
Harmonic Mean for Run 828: 16.62  
Harmonic Mean for Run 829: 16.61  
Harmonic Mean for Run 830: 17.25  
Harmonic Mean for Run 831: 16.61  
Harmonic Mean for Run 832: 16.86  
Harmonic Mean for Run 833: 16.93  
Harmonic Mean for Run 834: 16.29  
Harmonic Mean for Run 835: 16.77  
Harmonic Mean for Run 836: 17.05

Harmonic Mean for Run 837: 16.64  
Harmonic Mean for Run 838: 16.56  
Harmonic Mean for Run 839: 16.83  
Harmonic Mean for Run 840: 17.20  
Harmonic Mean for Run 841: 16.29  
Harmonic Mean for Run 842: 17.37  
Harmonic Mean for Run 843: 16.74  
Harmonic Mean for Run 844: 16.37  
Harmonic Mean for Run 845: 16.92  
Harmonic Mean for Run 846: 16.50  
Harmonic Mean for Run 847: 16.83  
Harmonic Mean for Run 848: 16.85  
Harmonic Mean for Run 849: 16.10  
Harmonic Mean for Run 850: 16.64  
Harmonic Mean for Run 851: 16.58  
Harmonic Mean for Run 852: 16.97  
Harmonic Mean for Run 853: 16.71  
Harmonic Mean for Run 854: 16.38  
Harmonic Mean for Run 855: 16.98  
Harmonic Mean for Run 856: 16.43  
Harmonic Mean for Run 857: 17.56  
Harmonic Mean for Run 858: 16.76  
Harmonic Mean for Run 859: 16.49  
Harmonic Mean for Run 860: 16.44  
Harmonic Mean for Run 861: 16.98  
Harmonic Mean for Run 862: 16.89  
Harmonic Mean for Run 863: 16.78  
Harmonic Mean for Run 864: 16.84  
Harmonic Mean for Run 865: 16.56  
Harmonic Mean for Run 866: 16.61

Harmonic Mean for Run 867: 16.51  
Harmonic Mean for Run 868: 16.01  
Harmonic Mean for Run 869: 16.70  
Harmonic Mean for Run 870: 16.93  
Harmonic Mean for Run 871: 16.65  
Harmonic Mean for Run 872: 16.34  
Harmonic Mean for Run 873: 16.91  
Harmonic Mean for Run 874: 16.60  
Harmonic Mean for Run 875: 17.08  
Harmonic Mean for Run 876: 17.16  
Harmonic Mean for Run 877: 16.56  
Harmonic Mean for Run 878: 16.12  
Harmonic Mean for Run 879: 16.84  
Harmonic Mean for Run 880: 16.65  
Harmonic Mean for Run 881: 16.91  
Harmonic Mean for Run 882: 16.50  
Harmonic Mean for Run 883: 17.03  
Harmonic Mean for Run 884: 16.78  
Harmonic Mean for Run 885: 17.09  
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Harmonic Mean for Run 887: 16.66  
Harmonic Mean for Run 888: 16.74  
Harmonic Mean for Run 889: 16.75  
Harmonic Mean for Run 890: 16.66  
Harmonic Mean for Run 891: 16.64  
Harmonic Mean for Run 892: 16.73  
Harmonic Mean for Run 893: 17.04  
Harmonic Mean for Run 894: 17.07  
Harmonic Mean for Run 895: 16.17  
Harmonic Mean for Run 896: 16.65

Harmonic Mean for Run 897: 17.23  
Harmonic Mean for Run 898: 16.54  
Harmonic Mean for Run 899: 16.44  
Harmonic Mean for Run 900: 16.29  
Harmonic Mean for Run 901: 16.85  
Harmonic Mean for Run 902: 16.87  
Harmonic Mean for Run 903: 16.45  
Harmonic Mean for Run 904: 16.00  
Harmonic Mean for Run 905: 17.02  
Harmonic Mean for Run 906: 16.71  
Harmonic Mean for Run 907: 17.24  
Harmonic Mean for Run 908: 16.89  
Harmonic Mean for Run 909: 16.62  
Harmonic Mean for Run 910: 16.72  
Harmonic Mean for Run 911: 16.66  
Harmonic Mean for Run 912: 16.76  
Harmonic Mean for Run 913: 15.92  
Harmonic Mean for Run 914: 16.87  
Harmonic Mean for Run 915: 16.50  
Harmonic Mean for Run 916: 16.52  
Harmonic Mean for Run 917: 16.53  
Harmonic Mean for Run 918: 16.70  
Harmonic Mean for Run 919: 17.04  
Harmonic Mean for Run 920: 16.25  
Harmonic Mean for Run 921: 16.95  
Harmonic Mean for Run 922: 17.30  
Harmonic Mean for Run 923: 16.97  
Harmonic Mean for Run 924: 16.73  
Harmonic Mean for Run 925: 16.87  
Harmonic Mean for Run 926: 16.98

Harmonic Mean for Run 927: 16.78  
Harmonic Mean for Run 928: 17.21  
Harmonic Mean for Run 929: 17.36  
Harmonic Mean for Run 930: 16.86  
Harmonic Mean for Run 931: 16.71  
Harmonic Mean for Run 932: 16.82  
Harmonic Mean for Run 933: 17.09  
Harmonic Mean for Run 934: 16.21  
Harmonic Mean for Run 935: 16.73  
Harmonic Mean for Run 936: 16.28  
Harmonic Mean for Run 937: 16.84  
Harmonic Mean for Run 938: 16.80  
Harmonic Mean for Run 939: 16.86  
Harmonic Mean for Run 940: 16.94  
Harmonic Mean for Run 941: 16.85  
Harmonic Mean for Run 942: 17.49  
Harmonic Mean for Run 943: 16.66  
Harmonic Mean for Run 944: 16.63  
Harmonic Mean for Run 945: 16.63  
Harmonic Mean for Run 946: 16.61  
Harmonic Mean for Run 947: 16.99  
Harmonic Mean for Run 948: 16.48  
Harmonic Mean for Run 949: 17.05  
Harmonic Mean for Run 950: 16.63  
Harmonic Mean for Run 951: 17.15  
Harmonic Mean for Run 952: 17.00  
Harmonic Mean for Run 953: 16.85  
Harmonic Mean for Run 954: 16.48  
Harmonic Mean for Run 955: 16.67  
Harmonic Mean for Run 956: 17.47



Harmonic Mean for Run 957: 16.97  
Harmonic Mean for Run 958: 16.39  
Harmonic Mean for Run 959: 16.58  
Harmonic Mean for Run 960: 17.16  
Harmonic Mean for Run 961: 16.94  
Harmonic Mean for Run 962: 17.15  
Harmonic Mean for Run 963: 16.54  
Harmonic Mean for Run 964: 16.94  
Harmonic Mean for Run 965: 16.94  
Harmonic Mean for Run 966: 17.02  
Harmonic Mean for Run 967: 16.53  
Harmonic Mean for Run 968: 16.58  
Harmonic Mean for Run 969: 16.49  
Harmonic Mean for Run 970: 16.93  
Harmonic Mean for Run 971: 16.62  
Harmonic Mean for Run 972: 15.75  
Harmonic Mean for Run 973: 16.81  
Harmonic Mean for Run 974: 16.49  
Harmonic Mean for Run 975: 16.66  
Harmonic Mean for Run 976: 16.62  
Harmonic Mean for Run 977: 16.40  
Harmonic Mean for Run 978: 16.88  
Harmonic Mean for Run 979: 17.00  
Harmonic Mean for Run 980: 16.93  
Harmonic Mean for Run 981: 16.75  
Harmonic Mean for Run 982: 17.10  
Harmonic Mean for Run 983: 16.18  
Harmonic Mean for Run 984: 16.98  
Harmonic Mean for Run 985: 16.99  
Harmonic Mean for Run 986: 16.48

Harmonic Mean for Run 987: 16.30  
Harmonic Mean for Run 988: 17.25  
Harmonic Mean for Run 989: 16.31  
Harmonic Mean for Run 990: 16.77  
Harmonic Mean for Run 991: 16.68  
Harmonic Mean for Run 992: 16.87  
Harmonic Mean for Run 993: 16.73  
Harmonic Mean for Run 994: 16.14  
Harmonic Mean for Run 995: 16.63  
Harmonic Mean for Run 996: 16.94  
Harmonic Mean for Run 997: 16.35  
Harmonic Mean for Run 998: 17.08  
Harmonic Mean for Run 999: 17.10  
Harmonic Mean for Run 1000: 16.96  
Average Harmonic Satisfaction: 16.77

Execution Time: 00:09:03

Process finished with exit code 0.