

## Driver Order Assignment and Routes

### Variation 1: A driver can only take one order at a time

Objective Cost: \$819404

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Route for driver 0:

Driver\_0\_Start Time(0,0) -> order\_id\_71\_pickup Time(480,480) -> order\_id\_71\_drop  
Time(1194,1194) -> order\_id\_28\_pickup Time(1332,1332) -> order\_id\_28\_drop Time(2338,2338) ->  
order\_id\_78\_pickup Time(2487,2487) -> order\_id\_78\_drop Time(3419,3419) -> Route\_END  
Time(3419,3419)

Time of the route: 3419 seconds

Cost of the route: \$14409

Distance of the route: 13303 meters

Delay of the route: 1106 seconds

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Route for driver 1:

Driver\_1\_Start Time(0,0) -> order\_id\_13\_pickup Time(360,360) -> order\_id\_13\_drop  
Time(1580,1580) -> order\_id\_77\_pickup Time(1749,1749) -> order\_id\_77\_drop Time(2867,2867) ->  
Route\_END Time(2867,2867)

Time of the route: 2867 seconds

Cost of the route: \$11147

Distance of the route: 10680 meters

Delay of the route: 467 seconds

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Route for driver 2:

Driver\_2\_Start Time(0,0) -> order\_id\_66\_pickup Time(420,420) -> order\_id\_66\_drop  
Time(1380,1380) -> order\_id\_53\_pickup Time(1736,1736) -> order\_id\_53\_drop Time(2636,2636) ->  
Route\_END Time(2636,2636)

Time of the route: 2636 seconds

Cost of the route: \$10441

Distance of the route: 10205 meters

Delay of the route: 236 seconds

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Route for driver 3:

Driver\_3\_Start Time(0,0) -> order\_id\_62\_pickup Time(540,985) -> order\_id\_62\_drop Time(627,1072)  
-> order\_id\_24\_pickup Time(1200,1200) -> order\_id\_24\_drop Time(1620,1620) ->  
order\_id\_95\_pickup Time(1744,1744) -> order\_id\_95\_drop Time(2494,2494) -> order\_id\_92\_pickup  
Time(2664,2664) -> order\_id\_92\_drop Time(4286,4286) -> Route\_END Time(4286,4286)

Time of the route: 4286 seconds

Cost of the route: \$16772

Distance of the route: 14528 meters

Delay of the route: 2244 seconds

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Route for driver 4:

Driver\_4\_Start Time(0,0) -> order\_id\_73\_pickup Time(480,480) -> order\_id\_73\_drop  
Time(1149,1149) -> order\_id\_19\_pickup Time(1217,1217) -> order\_id\_19\_drop Time(2043,2043) ->  
order\_id\_90\_pickup Time(2142,2142) -> order\_id\_90\_drop Time(3068,3068) -> Route\_END  
Time(3068,3068)

Time of the route: 3068 seconds

Cost of the route: \$13140

Distance of the route: 12472 meters

Delay of the route: 668 seconds

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Route for driver 5:

Driver\_5\_Start Time(0,0) -> order\_id\_30\_pickup Time(420,420) -> order\_id\_30\_drop  
Time(1263,1263) -> order\_id\_21\_pickup Time(1339,1339) -> order\_id\_21\_drop Time(2443,2443) ->  
order\_id\_99\_pickup Time(2671,2671) -> order\_id\_99\_drop Time(3540,3540) -> Route\_END  
Time(3540,3540)

Time of the route: 3540 seconds

Cost of the route: \$15074

Distance of the route: 13620 meters

Delay of the route: 1454 seconds

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Route for driver 6:

Driver\_6\_Start Time(0,0) -> order\_id\_39\_pickup Time(360,360) -> order\_id\_39\_drop Time(772,772) -> order\_id\_65\_pickup Time(991,991) -> order\_id\_65\_drop Time(2317,2317) -> order\_id\_93\_pickup Time(2392,2392) -> order\_id\_93\_drop Time(3549,3549) -> Route\_END Time(3549,3549)

Time of the route: 3549 seconds

Cost of the route: \$15071

Distance of the route: 13922 meters

Delay of the route: 1149 seconds

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Route for driver 7:

Driver\_7\_Start Time(0,0) -> order\_id\_50\_pickup Time(780,780) -> order\_id\_50\_drop Time(1226,1226) -> order\_id\_46\_pickup Time(1460,1460) -> order\_id\_46\_drop Time(2726,2726) -> order\_id\_16\_pickup Time(2828,2828) -> order\_id\_16\_drop Time(3907,3907) -> Route\_END Time(3907,3907)

Time of the route: 3907 seconds

Cost of the route: \$15749

Distance of the route: 13488 meters

Delay of the route: 2261 seconds

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Route for driver 8:

Driver\_8\_Start Time(0,0) -> order\_id\_80\_pickup Time(780,780) -> order\_id\_80\_drop Time(2112,2112) -> order\_id\_22\_pickup Time(2354,2354) -> order\_id\_22\_drop Time(3563,3563) -> Route\_END Time(3563,3563)

Time of the route: 3563 seconds

Cost of the route: \$13991

Distance of the route: 12828 meters

Delay of the route: 1163 seconds

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Route for driver 9:

Driver\_9\_Start Time(0,0) -> order\_id\_58\_pickup Time(1200,1200) -> order\_id\_58\_drop Time(2423,2423) -> order\_id\_0\_pickup Time(2731,2731) -> order\_id\_0\_drop Time(3211,3211) -> Route\_END Time(3211,3211)

Time of the route: 3211 seconds

Cost of the route: \$10258

Distance of the route: 9093 meters

Delay of the route: 1165 seconds

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Route for driver 10:

Driver\_10\_Start Time(0,0) -> order\_id\_20\_pickup Time(420,420) -> order\_id\_20\_drop Time(867,867)  
-> order\_id\_5\_pickup Time(923,923) -> order\_id\_5\_drop Time(1740,1740) -> order\_id\_43\_pickup  
Time(1879,1879) -> order\_id\_43\_drop Time(2304,2304) -> Route\_END Time(2304,2304)

Time of the route: 2304 seconds

Cost of the route: \$9153

Distance of the route: 9153 meters

Delay of the route: 0 seconds

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Route for driver 11:

Driver\_11\_Start Time(0,0) -> order\_id\_81\_pickup Time(780,780) -> order\_id\_81\_drop  
Time(1724,1724) -> order\_id\_88\_pickup Time(1747,1747) -> order\_id\_88\_drop Time(3059,3059) ->  
order\_id\_6\_pickup Time(3145,3145) -> order\_id\_6\_drop Time(4572,4572) -> Route\_END  
Time(4572,4572)

Time of the route: 4572 seconds

Cost of the route: \$19988

Distance of the route: 16412 meters

Delay of the route: 3576 seconds

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Route for driver 12:

Driver\_12\_Start Time(0,0) -> order\_id\_54\_pickup Time(540,540) -> order\_id\_54\_drop  
Time(1428,1428) -> order\_id\_38\_pickup Time(1798,1798) -> order\_id\_38\_drop Time(2512,2512) ->  
order\_id\_42\_pickup Time(2553,2553) -> order\_id\_42\_drop Time(3577,3577) -> Route\_END  
Time(3577,3577)

Time of the route: 3577 seconds

Cost of the route: \$15664

Distance of the route: 14222 meters

Delay of the route: 1442 seconds

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Route for driver 13:

Driver\_13\_Start Time(0,0) -> order\_id\_35\_pickup Time(1020,1020) -> order\_id\_35\_drop  
Time(2246,2246) -> Route\_END Time(2246,2246)

Time of the route: 2246 seconds

Cost of the route: \$5796

Distance of the route: 5796 meters

Delay of the route: 0 seconds

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Route for driver 14:

Driver\_14\_Start Time(0,0) -> order\_id\_79\_pickup Time(720,720) -> order\_id\_79\_drop  
Time(1916,1916) -> order\_id\_41\_pickup Time(2062,2062) -> order\_id\_41\_drop Time(2285,2285) ->  
order\_id\_63\_pickup Time(2430,2430) -> order\_id\_63\_drop Time(4026,4026) -> Route\_END  
Time(4026,4026)

Time of the route: 4026 seconds

Cost of the route: \$16212

Distance of the route: 14556 meters

Delay of the route: 1656 seconds

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Route for driver 15:

Driver\_15\_Start Time(0,0) -> order\_id\_34\_pickup Time(406,406) -> order\_id\_34\_drop  
Time(1839,1839) -> order\_id\_9\_pickup Time(2006,2006) -> order\_id\_9\_drop Time(2375,2375) ->  
order\_id\_31\_pickup Time(2408,2408) -> order\_id\_31\_drop Time(3988,3988) -> Route\_END  
Time(3988,3988)

Time of the route: 3988 seconds

Cost of the route: \$18210

Distance of the route: 16614 meters

Delay of the route: 1596 seconds

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Route for driver 16:

Driver\_16\_Start Time(0,0) -> order\_id\_45\_pickup Time(360,360) -> order\_id\_45\_drop Time(871,871)  
-> order\_id\_74\_pickup Time(1143,1143) -> order\_id\_74\_drop Time(2155,2155) ->  
order\_id\_56\_pickup Time(2256,2256) -> order\_id\_56\_drop Time(3468,3468) -> Route\_END  
Time(3468,3468)

Time of the route: 3468 seconds

Cost of the route: \$15128

Distance of the route: 14060 meters

Delay of the route: 1068 seconds

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Route for driver 17:

Driver\_17\_Start Time(0,0) -> order\_id\_72\_pickup Time(420,420) -> order\_id\_72\_drop  
Time(1228,1228) -> order\_id\_67\_pickup Time(1422,1422) -> order\_id\_67\_drop Time(3168,3168) ->  
Route\_END Time(3168,3168)

Time of the route: 3168 seconds

Cost of the route: \$13672

Distance of the route: 12904 meters

Delay of the route: 768 seconds

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Route for driver 18:

Driver\_18\_Start Time(0,0) -> order\_id\_60\_pickup Time(600,600) -> order\_id\_60\_drop  
Time(1409,1409) -> order\_id\_27\_pickup Time(1605,1605) -> order\_id\_27\_drop Time(2291,2291) ->  
order\_id\_14\_pickup Time(2642,2642) -> order\_id\_14\_drop Time(4043,4043) -> Route\_END  
Time(4043,4043)

Time of the route: 4043 seconds

Cost of the route: \$17259

Distance of the route: 15374 meters

Delay of the route: 1885 seconds

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Route for driver 19:

Driver\_19\_Start Time(0,0) -> order\_id\_89\_pickup Time(540,540) -> order\_id\_89\_drop  
Time(1511,1511) -> order\_id\_36\_pickup Time(1978,1978) -> order\_id\_36\_drop Time(2322,2322) ->  
order\_id\_26\_pickup Time(2647,2647) -> order\_id\_26\_drop Time(3485,3485) -> Route\_END  
Time(3485,3485)

Time of the route: 3485 seconds

Cost of the route: \$13949

Distance of the route: 12617 meters

Delay of the route: 1332 seconds

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Route for driver 20:

Driver\_20\_Start Time(0,0) -> order\_id\_61\_pickup Time(660,660) -> order\_id\_61\_drop Time(978,978)  
-> Route\_END Time(978,978)

Time of the route: 978 seconds

Cost of the route: \$11349

Distance of the route: 3783 meters

Delay of the route: 0 seconds

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Route for driver 21:

Driver\_21\_Start Time(0,0) -> order\_id\_76\_pickup Time(540,540) -> order\_id\_76\_drop Time(948,948)  
-> Route\_END Time(948,948)

Time of the route: 948 seconds

Cost of the route: \$10878

Distance of the route: 3626 meters

Delay of the route: 0 seconds

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Route for driver 22:

Driver\_22\_Start Time(0,0) -> order\_id\_51\_pickup Time(780,780) -> order\_id\_51\_drop  
Time(1517,1517) -> order\_id\_69\_pickup Time(1558,1558) -> order\_id\_69\_drop Time(1904,1904) ->  
order\_id\_11\_pickup Time(1982,1982) -> order\_id\_11\_drop Time(2185,2185) -> Route\_END  
Time(2185,2185)

Time of the route: 2185 seconds

Cost of the route: \$36078

Distance of the route: 12026 meters

Delay of the route: 0 seconds

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Route for driver 23:

Driver\_23\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

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Route for driver 24:

Driver\_24\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

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Route for driver 25:

Driver\_25\_Start Time(0,0) -> order\_id\_82\_pickup Time(720,720) -> order\_id\_82\_drop  
Time(1017,1017) -> Route\_END Time(1017,1017)

Time of the route: 1017 seconds

Cost of the route: \$8151

Distance of the route: 2717 meters

Delay of the route: 0 seconds

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Route for driver 26:

Driver\_26\_Start Time(0,0) -> order\_id\_4\_pickup Time(360,360) -> order\_id\_4\_drop Time(461,461) ->  
order\_id\_59\_pickup Time(505,505) -> order\_id\_59\_drop Time(905,905) -> order\_id\_2\_pickup  
Time(1015,1015) -> order\_id\_2\_drop Time(1757,1757) -> order\_id\_1\_pickup Time(1766,1766) ->  
order\_id\_1\_drop Time(1961,1961) -> order\_id\_44\_pickup Time(1989,1989) -> order\_id\_44\_drop  
Time(2476,2476) -> order\_id\_68\_pickup Time(2562,2562) -> order\_id\_68\_drop Time(2812,2812) ->  
Route\_END Time(2812,2812)

Time of the route: 2812 seconds

Cost of the route: \$64466

Distance of the route: 21272 meters

Delay of the route: 650 seconds

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Route for driver 27:

Driver\_27\_Start Time(0,0) -> order\_id\_8\_pickup Time(480,480) -> order\_id\_8\_drop Time(721,721) ->  
order\_id\_49\_pickup Time(845,845) -> order\_id\_49\_drop Time(1319,1319) -> Route\_END  
Time(1319,1319)

Time of the route: 1319 seconds

Cost of the route: \$21717

Distance of the route: 7239 meters

Delay of the route: 0 seconds



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Route for driver 28:

Driver\_28\_Start Time(0,0) -> order\_id\_83\_pickup Time(780,780) -> order\_id\_83\_drop  
Time(1291,1291) -> order\_id\_48\_pickup Time(1408,1408) -> order\_id\_48\_drop Time(1775,1775) ->  
Route\_END Time(1775,1775)

Time of the route: 1775 seconds

Cost of the route: \$27348

Distance of the route: 9116 meters

Delay of the route: 0 seconds  
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Route for driver 29:

Driver\_29\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds  
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Route for driver 30:

Driver\_30\_Start Time(0,0) -> order\_id\_52\_pickup Time(840,840) -> order\_id\_52\_drop Time(900,900)  
-> order\_id\_29\_pickup Time(968,968) -> order\_id\_29\_drop Time(1348,1348) -> order\_id\_15\_pickup  
Time(1513,1513) -> order\_id\_15\_drop Time(2153,2153) -> Route\_END Time(2153,2153)

Time of the route: 2153 seconds

Cost of the route: \$34344

Distance of the route: 11448 meters

Delay of the route: 0 seconds  
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Route for driver 31:

Driver\_31\_Start Time(0,0) -> order\_id\_91\_pickup Time(1140,1140) -> order\_id\_91\_drop  
Time(1209,1209) -> order\_id\_12\_pickup Time(1288,1288) -> order\_id\_12\_drop Time(1858,1858) ->  
order\_id\_7\_pickup Time(1972,1972) -> order\_id\_7\_drop Time(2021,2021) -> order\_id\_17\_pickup  
Time(2058,2058) -> order\_id\_17\_drop Time(2800,2800) -> Route\_END Time(2800,2800)

Time of the route: 2800 seconds

Cost of the route: \$43867

Distance of the route: 14489 meters

Delay of the route: 400 seconds

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Route for driver 32:

Driver\_32\_Start Time(0,0) -> order\_id\_84\_pickup Time(600,807) -> order\_id\_84\_drop Time(661,868)  
-> order\_id\_10\_pickup Time(900,900) -> order\_id\_10\_drop Time(1356,1356) -> order\_id\_47\_pickup  
Time(1466,1466) -> order\_id\_47\_drop Time(2348,2348) -> Route\_END Time(2348,2348)

Time of the route: 2348 seconds

Cost of the route: \$39462

Distance of the route: 13154 meters

Delay of the route: 0 seconds

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Route for driver 33:

Driver\_33\_Start Time(0,0) -> order\_id\_40\_pickup Time(540,540) -> order\_id\_40\_drop Time(974,974)  
-> Route\_END Time(974,974)

Time of the route: 974 seconds

Cost of the route: \$11286

Distance of the route: 3762 meters

Delay of the route: 0 seconds

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Route for driver 34:

Driver\_34\_Start Time(0,0) -> order\_id\_98\_pickup Time(480,480) -> order\_id\_98\_drop Time(758,758)  
-> order\_id\_33\_pickup Time(846,846) -> order\_id\_33\_drop Time(1370,1370) -> order\_id\_87\_pickup  
Time(1515,1515) -> order\_id\_87\_drop Time(2319,2319) -> order\_id\_57\_pickup Time(2404,2404) ->  
order\_id\_57\_drop Time(3105,3105) -> Route\_END Time(3105,3105)

Time of the route: 3105 seconds

Cost of the route: \$67690

Distance of the route: 22327 meters

Delay of the route: 709 seconds

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Route for driver 35:

Driver\_35\_Start Time(0,0) -> order\_id\_70\_pickup Time(720,720) -> order\_id\_70\_drop  
Time(1339,1339) -> order\_id\_64\_pickup Time(1450,1450) -> order\_id\_64\_drop Time(1703,1703) ->

order\_id\_18\_pickup Time(1751,1751) -> order\_id\_18\_drop Time(2034,2034) -> order\_id\_3\_pickup Time(2113,2113) -> order\_id\_3\_drop Time(2433,2433) -> Route\_END Time(2433,2433)

Time of the route: 2433 seconds

Cost of the route: \$44205

Distance of the route: 14724 meters

Delay of the route: 33 seconds

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Route for driver 36:

Driver\_36\_Start Time(0,0) -> order\_id\_96\_pickup Time(780,780) -> order\_id\_96\_drop Time(805,805) -> order\_id\_55\_pickup Time(845,845) -> order\_id\_55\_drop Time(1122,1122) -> order\_id\_23\_pickup Time(1173,1173) -> order\_id\_23\_drop Time(1473,1473) -> Route\_END Time(1473,1473)

Time of the route: 1473 seconds

Cost of the route: \$17505

Distance of the route: 5835 meters

Delay of the route: 0 seconds

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Route for driver 37:

Driver\_37\_Start Time(0,0) -> order\_id\_85\_pickup Time(960,960) -> order\_id\_85\_drop Time(1472,1472) -> order\_id\_94\_pickup Time(1529,1529) -> order\_id\_94\_drop Time(2267,2267) -> order\_id\_25\_pickup Time(2307,2307) -> order\_id\_25\_drop Time(3057,3057) -> Route\_END Time(3057,3057)

Time of the route: 3057 seconds

Cost of the route: \$56370

Distance of the route: 18571 meters

Delay of the route: 657 seconds

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Route for driver 38:

Driver\_38\_Start Time(0,0) -> order\_id\_86\_pickup Time(600,716) -> order\_id\_86\_drop Time(652,768) -> order\_id\_32\_pickup Time(780,780) -> order\_id\_32\_drop Time(944,944) -> order\_id\_37\_pickup Time(1017,1017) -> order\_id\_37\_drop Time(1359,1359) -> order\_id\_97\_pickup Time(1453,1453) -> order\_id\_97\_drop Time(1884,1884) -> order\_id\_75\_pickup Time(1933,1933) -> order\_id\_75\_drop Time(2454,2454) -> Route\_END Time(2454,2454)

Time of the route: 2454 seconds

Cost of the route: \$43605

Distance of the route: 14517 meters

Delay of the route: 54 seconds

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Route for driver 39:

Driver\_39\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

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## Route Metrics:

Maximum of the route costs: \$67690

Total route cost: \$819404

Total route time: 100754 seconds

Total route distance: 434453 meters

Total route delay: 27739 seconds

## Variation 2: A driver can combine orders

Objective Cost: \$636478

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Route for driver 0:

Driver\_0\_Start Time(0,0) -> order\_id\_88\_pickup Time(1080,1080) -> order\_id\_26\_pickup  
Time(1308,1308) -> order\_id\_26\_drop Time(2146,2146) -> order\_id\_16\_pickup Time(2368,2368) ->  
order\_id\_88\_drop Time(2405,2405) -> order\_id\_16\_drop Time(3513,3513) -> Route\_END  
Time(3513,3513)

Time of the route: 3513 seconds

Cost of the route: \$11810

Distance of the route: 10692 meters

Delay of the route: 1118 seconds

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Route for driver 1:

Driver\_1\_Start Time(0,0) -> order\_id\_13\_pickup Time(360,360) -> order\_id\_20\_pickup  
Time(827,827) -> order\_id\_79\_pickup Time(923,923) -> order\_id\_20\_drop Time(1287,1287) ->  
order\_id\_13\_drop Time(1815,1815) -> order\_id\_79\_drop Time(2316,2316) -> Route\_END  
Time(2316,2316)

Time of the route: 2316 seconds

Cost of the route: \$8381

Distance of the route: 8381 meters

Delay of the route: 0 seconds

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Route for driver 2:

Driver\_2\_Start Time(0,0) -> order\_id\_66\_pickup Time(420,1074) -> order\_id\_58\_pickup  
Time(1200,1200) -> order\_id\_66\_drop Time(2079,2079) -> order\_id\_46\_pickup Time(2316,2316) ->  
order\_id\_58\_drop Time(3020,3020) -> order\_id\_46\_drop Time(3585,3585) -> Route\_END  
Time(3585,3585)

Time of the route: 3585 seconds

Cost of the route: \$13247

Distance of the route: 11442 meters

Delay of the route: 1805 seconds

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Route for driver 3:

Driver\_3\_Start Time(0,0) -> order\_id\_42\_pickup Time(420,420) -> order\_id\_45\_pickup  
Time(833,833) -> order\_id\_45\_drop Time(1344,1344) -> order\_id\_42\_drop Time(1593,1593) ->  
order\_id\_60\_pickup Time(1785,1785) -> order\_id\_60\_drop Time(2594,2594) -> Route\_END  
Time(2594,2594)

Time of the route: 2594 seconds

Cost of the route: \$9897

Distance of the route: 9703 meters

Delay of the route: 194 seconds

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Route for driver 4:

Driver\_4\_Start Time(0,0) -> order\_id\_21\_pickup Time(960,960) -> order\_id\_21\_drop  
Time(2064,2064) -> order\_id\_92\_pickup Time(2162,2162) -> order\_id\_92\_drop Time(3784,3784) ->  
Route\_END Time(3784,3784)

Time of the route: 3784 seconds

Cost of the route: \$14096

Distance of the route: 12712 meters

Delay of the route: 1384 seconds

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Route for driver 5:

Driver\_5\_Start Time(0,0) -> order\_id\_5\_pickup Time(840,961) -> order\_id\_95\_pickup  
Time(1140,1140) -> order\_id\_95\_drop Time(1890,1890) -> order\_id\_99\_pickup Time(2271,2271) ->  
order\_id\_5\_drop Time(2453,2453) -> order\_id\_90\_pickup Time(2527,2527) -> order\_id\_99\_drop  
Time(3223,3223) -> order\_id\_90\_drop Time(3504,3504) -> Route\_END Time(3504,3504)

Time of the route: 3504 seconds

Cost of the route: \$13313

Distance of the route: 11206 meters

Delay of the route: 2107 seconds

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Route for driver 6:

Driver\_6\_Start Time(0,0) -> order\_id\_67\_pickup Time(480,526) -> order\_id\_24\_pickup  
Time(1200,1200) -> order\_id\_24\_drop Time(1620,1620) -> order\_id\_67\_drop Time(2297,2297) ->  
Route\_END Time(2297,2297)

Time of the route: 2297 seconds

Cost of the route: \$8277

Distance of the route: 8277 meters

Delay of the route: 0 seconds

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Route for driver 7:

Driver\_7\_Start Time(0,0) -> order\_id\_0\_pickup Time(960,960) -> order\_id\_0\_drop Time(1440,1440) -  
> order\_id\_77\_pickup Time(1806,1806) -> order\_id\_77\_drop Time(2924,2924) -> Route\_END  
Time(2924,2924)

Time of the route: 2924 seconds

Cost of the route: \$9491

Distance of the route: 8967 meters

Delay of the route: 524 seconds

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Route for driver 8:

Driver\_8\_Start Time(0,0) -> order\_id\_6\_pickup Time(1020,1020) -> order\_id\_6\_drop  
Time(2447,2447) -> Route\_END Time(2447,2447)

Time of the route: 2447 seconds

Cost of the route: \$7260

Distance of the route: 7213 meters

Delay of the route: 47 seconds

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Route for driver 9:

Driver\_9\_Start Time(0,0) -> order\_id\_39\_pickup Time(360,635) -> order\_id\_39\_drop Time(772,1047)  
-> order\_id\_22\_pickup Time(1140,1140) -> order\_id\_22\_drop Time(2349,2349) -> Route\_END  
Time(2349,2349)

Time of the route: 2349 seconds

Cost of the route: \$7966

Distance of the route: 7966 meters

Delay of the route: 0 seconds

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Route for driver 10:

Driver\_10\_Start Time(0,0) -> order\_id\_73\_pickup Time(480,480) -> order\_id\_73\_drop  
Time(1149,1149) -> order\_id\_19\_pickup Time(1217,1217) -> order\_id\_19\_drop Time(2043,2043) ->  
order\_id\_38\_pickup Time(2393,2393) -> order\_id\_38\_drop Time(3107,3107) -> Route\_END  
Time(3107,3107)

Time of the route: 3107 seconds

Cost of the route: \$12698

Distance of the route: 11991 meters

Delay of the route: 707 seconds

=====

Route for driver 11:

Driver\_11\_Start Time(0,0) -> order\_id\_54\_pickup Time(540,653) -> order\_id\_41\_pickup  
Time(1140,1140) -> order\_id\_41\_drop Time(1363,1363) -> order\_id\_63\_pickup Time(1508,1508) ->  
order\_id\_54\_drop Time(2663,2663) -> order\_id\_63\_drop Time(3156,3156) -> Route\_END  
Time(3156,3156)

Time of the route: 3156 seconds

Cost of the route: \$12538

Distance of the route: 11519 meters

Delay of the route: 1019 seconds

=====

Route for driver 12:

Driver\_12\_Start Time(0,0) -> order\_id\_31\_pickup Time(780,780) -> order\_id\_27\_pickup  
Time(1125,1125) -> order\_id\_27\_drop Time(1811,1811) -> order\_id\_31\_drop Time(2871,2871) ->  
Route\_END Time(2871,2871)

Time of the route: 2871 seconds

Cost of the route: \$9539

Distance of the route: 9068 meters

Delay of the route: 471 seconds

=====

Route for driver 13:

Driver\_13\_Start Time(0,0) -> order\_id\_35\_pickup Time(1020,1020) -> order\_id\_35\_drop  
Time(2246,2246) -> Route\_END Time(2246,2246)

Time of the route: 2246 seconds

Cost of the route: \$5796

Distance of the route: 5796 meters



Delay of the route: 0 seconds

=====

Route for driver 14:

Driver\_14\_Start Time(0,0) -> order\_id\_56\_pickup Time(960,960) -> order\_id\_72\_pickup  
Time(1956,1956) -> order\_id\_56\_drop Time(2464,2464) -> order\_id\_72\_drop Time(2800,2800) ->  
Route\_END Time(2800,2800)

Time of the route: 2800 seconds

Cost of the route: \$10755

Distance of the route: 10291 meters

Delay of the route: 464 seconds

=====

Route for driver 15:

Driver\_15\_Start Time(0,0) -> order\_id\_93\_pickup Time(1080,1080) -> order\_id\_93\_drop  
Time(2237,2237) -> order\_id\_80\_pickup Time(2271,2271) -> order\_id\_80\_drop Time(3603,3603) ->  
Route\_END Time(3603,3603)

Time of the route: 3603 seconds

Cost of the route: \$12995

Distance of the route: 11792 meters

Delay of the route: 1203 seconds

=====

Route for driver 16:

Driver\_16\_Start Time(0,0) -> order\_id\_89\_pickup Time(540,587) -> order\_id\_81\_pickup  
Time(780,780) -> order\_id\_81\_drop Time(1724,1724) -> order\_id\_89\_drop Time(1960,1960) ->  
order\_id\_1\_pickup Time(1993,1993) -> order\_id\_1\_drop Time(2383,2383) -> Route\_END  
Time(2383,2383)

Time of the route: 2383 seconds

Cost of the route: \$8098

Distance of the route: 8098 meters

Delay of the route: 0 seconds

=====

Route for driver 17:

Driver\_17\_Start Time(0,0) -> order\_id\_74\_pickup Time(720,720) -> order\_id\_74\_drop  
Time(1732,1732) -> order\_id\_34\_pickup Time(1836,1836) -> order\_id\_34\_drop Time(3269,3269) ->  
Route\_END Time(3269,3269)

Time of the route: 3269 seconds

Cost of the route: \$13851

Distance of the route: 12982 meters

Delay of the route: 869 seconds

=====

Route for driver 18:

Driver\_18\_Start Time(0,0) -> order\_id\_14\_pickup Time(300,300) -> order\_id\_30\_pickup  
Time(805,805) -> order\_id\_30\_drop Time(1648,1648) -> order\_id\_14\_drop Time(2055,2055) ->  
Route\_END Time(2055,2055)

Time of the route: 2055 seconds

Cost of the route: \$8547

Distance of the route: 8547 meters

Delay of the route: 0 seconds

=====

Route for driver 19:

Driver\_19\_Start Time(0,0) -> order\_id\_9\_pickup Time(1080,1080) -> order\_id\_9\_drop  
Time(1449,1449) -> order\_id\_53\_pickup Time(1675,1675) -> order\_id\_53\_drop Time(2575,2575) ->  
Route\_END Time(2575,2575)

Time of the route: 2575 seconds

Cost of the route: \$7587

Distance of the route: 7412 meters

Delay of the route: 175 seconds

=====

Route for driver 20:

Driver\_20\_Start Time(0,0) -> order\_id\_64\_pickup Time(660,899) -> order\_id\_64\_drop  
Time(913,1152) -> order\_id\_18\_pickup Time(1200,1200) -> order\_id\_97\_pickup Time(1302,1302) ->  
order\_id\_18\_drop Time(1550,1550) -> order\_id\_97\_drop Time(1737,1737) -> order\_id\_75\_pickup  
Time(1786,1786) -> order\_id\_57\_pickup Time(1858,1858) -> order\_id\_75\_drop Time(2414,2414) ->  
order\_id\_57\_drop Time(2719,2719) -> Route\_END Time(2719,2719)

Time of the route: 2719 seconds

Cost of the route: \$53889

Distance of the route: 17852 meters

Delay of the route: 333 seconds

=====

Route for driver 21:

Driver\_21\_Start Time(0,0) -> order\_id\_28\_pickup Time(1200,1200) -> order\_id\_76\_pickup Time(1241,1241) -> order\_id\_52\_pickup Time(1347,1347) -> order\_id\_52\_drop Time(1407,1407) -> order\_id\_29\_pickup Time(1475,1475) -> order\_id\_76\_drop Time(1688,1688) -> order\_id\_28\_drop Time(1895,1895) -> order\_id\_29\_drop Time(1949,1949) -> Route\_END Time(1949,1949)

Time of the route: 1949 seconds

Cost of the route: \$19137

Distance of the route: 6379 meters

Delay of the route: 0 seconds

=====

Route for driver 22:

Driver\_22\_Start Time(0,0) -> order\_id\_94\_pickup Time(960,960) -> order\_id\_17\_pickup Time(1116,1116) -> order\_id\_65\_pickup Time(1348,1348) -> order\_id\_94\_drop Time(1867,1867) -> order\_id\_17\_drop Time(2023,2023) -> order\_id\_69\_pickup Time(2072,2072) -> order\_id\_43\_pickup Time(2133,2133) -> order\_id\_65\_drop Time(2217,2217) -> order\_id\_43\_drop Time(2391,2391) -> order\_id\_69\_drop Time(2509,2509) -> Route\_END Time(2509,2509)

Time of the route: 2509 seconds

Cost of the route: \$39796

Distance of the route: 13229 meters

Delay of the route: 109 seconds

=====

Route for driver 23:

Driver\_23\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

=====

Route for driver 24:

Driver\_24\_Start Time(0,0) -> order\_id\_37\_pickup Time(660,852) -> order\_id\_68\_pickup Time(960,960) -> order\_id\_68\_drop Time(1210,1210) -> order\_id\_78\_pickup Time(1343,1343) -> order\_id\_37\_drop Time(1525,1525) -> order\_id\_15\_pickup Time(1612,1612) -> order\_id\_78\_drop Time(1959,1959) -> order\_id\_15\_drop Time(2259,2259) -> Route\_END Time(2259,2259)

Time of the route: 2259 seconds

Cost of the route: \$37218

Distance of the route: 12406 meters

Delay of the route: 0 seconds

=====

Route for driver 25:

Driver\_25\_Start Time(0,0) -> order\_id\_82\_pickup Time(720,720) -> order\_id\_82\_drop  
Time(1017,1017) -> Route\_END Time(1017,1017)

Time of the route: 1017 seconds

Cost of the route: \$8151

Distance of the route: 2717 meters

Delay of the route: 0 seconds

=====

Route for driver 26:

Driver\_26\_Start Time(0,0) -> order\_id\_4\_pickup Time(360,603) -> order\_id\_4\_drop Time(461,704) ->  
order\_id\_59\_pickup Time(505,748) -> order\_id\_7\_pickup Time(840,840) -> order\_id\_7\_drop  
Time(889,889) -> order\_id\_47\_pickup Time(998,998) -> order\_id\_59\_drop Time(1187,1187) ->  
order\_id\_40\_pickup Time(1386,1386) -> order\_id\_40\_drop Time(1820,1820) -> order\_id\_47\_drop  
Time(2048,2048) -> Route\_END Time(2048,2048)

Time of the route: 2048 seconds

Cost of the route: \$38664

Distance of the route: 12888 meters

Delay of the route: 0 seconds

=====

Route for driver 27:

Driver\_27\_Start Time(0,0) -> order\_id\_8\_pickup Time(480,480) -> order\_id\_8\_drop Time(721,721) ->  
Route\_END Time(721,721)

Time of the route: 721 seconds

Cost of the route: \$6762

Distance of the route: 2254 meters

Delay of the route: 0 seconds

=====

Route for driver 28:

Driver\_28\_Start Time(0,0) -> order\_id\_83\_pickup Time(780,780) -> order\_id\_51\_pickup  
Time(890,890) -> order\_id\_83\_drop Time(1484,1484) -> order\_id\_70\_pickup Time(1719,1719) ->  
order\_id\_51\_drop Time(1906,1906) -> order\_id\_25\_pickup Time(2036,2036) -> order\_id\_70\_drop  
Time(2561,2561) -> order\_id\_25\_drop Time(2915,2915) -> Route\_END Time(2915,2915)

Time of the route: 2915 seconds

Cost of the route: \$56518

Distance of the route: 18614 meters

Delay of the route: 676 seconds

=====

Route for driver 29:

Driver\_29\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

=====

Route for driver 30:

Driver\_30\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

=====

Route for driver 31:

Driver\_31\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

=====

Route for driver 32:

Driver\_32\_Start Time(0,0) -> order\_id\_10\_pickup Time(900,900) -> order\_id\_84\_pickup Time(930,930) -> order\_id\_84\_drop Time(991,991) -> order\_id\_87\_pickup Time(1067,1067) -> order\_id\_10\_drop Time(1420,1420) -> order\_id\_62\_pickup Time(1706,1706) -> order\_id\_62\_drop Time(1749,1749) -> order\_id\_61\_pickup Time(1818,1818) -> order\_id\_61\_drop Time(2136,2136) -> order\_id\_87\_drop Time(2337,2337) -> Route\_END Time(2337,2337)

Time of the route: 2337 seconds

Cost of the route: \$36153

Distance of the route: 12051 meters

Delay of the route: 0 seconds

=====

Route for driver 33:

Driver\_33\_Start Time(0,0) -> order\_id\_33\_pickup Time(720,720) -> order\_id\_2\_pickup Time(767,767) -> order\_id\_33\_drop Time(1254,1254) -> order\_id\_44\_pickup Time(1466,1466) -> order\_id\_2\_drop Time(1640,1640) -> order\_id\_71\_pickup Time(1857,1857) -> order\_id\_36\_pickup Time(1883,1883) -> order\_id\_44\_drop Time(2044,2044) -> order\_id\_3\_pickup Time(2139,2139) -> order\_id\_36\_drop Time(2145,2145) -> order\_id\_71\_drop Time(2320,2320) -> order\_id\_3\_drop Time(2477,2477) -> Route\_END Time(2477,2477)

Time of the route: 2477 seconds

Cost of the route: \$45284

Distance of the route: 15069 meters

Delay of the route: 77 seconds

=====

Route for driver 34:

Driver\_34\_Start Time(0,0) -> order\_id\_98\_pickup Time(480,480) -> order\_id\_98\_drop Time(758,758) -> Route\_END Time(758,758)

Time of the route: 758 seconds

Cost of the route: \$8301

Distance of the route: 2767 meters

Delay of the route: 0 seconds

=====

Route for driver 35:

Driver\_35\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

=====

Route for driver 36:

Driver\_36\_Start Time(0,0) -> order\_id\_96\_pickup Time(780,780) -> order\_id\_96\_drop Time(805,805)  
-> order\_id\_55\_pickup Time(845,845) -> order\_id\_55\_drop Time(1122,1122) -> order\_id\_23\_pickup  
Time(1173,1173) -> order\_id\_23\_drop Time(1473,1473) -> order\_id\_91\_pickup Time(1550,1550) ->  
order\_id\_91\_drop Time(1619,1619) -> Route\_END Time(1619,1619)

Time of the route: 1619 seconds

Cost of the route: \$21144

Distance of the route: 7048 meters

Delay of the route: 0 seconds

=====

Route for driver 37:

Driver\_37\_Start Time(0,0) -> order\_id\_85\_pickup Time(960,960) -> order\_id\_49\_pickup  
Time(1091,1091) -> order\_id\_85\_drop Time(1550,1550) -> order\_id\_49\_drop Time(1583,1583) ->  
Route\_END Time(1583,1583)

Time of the route: 1583 seconds

Cost of the route: \$18846

Distance of the route: 6282 meters

Delay of the route: 0 seconds

=====

Route for driver 38:

Driver\_38\_Start Time(0,0) -> order\_id\_86\_pickup Time(600,716) -> order\_id\_86\_drop Time(652,768)  
-> order\_id\_32\_pickup Time(780,780) -> order\_id\_11\_pickup Time(908,908) -> order\_id\_32\_drop  
Time(1008,1008) -> order\_id\_11\_drop Time(1170,1170) -> order\_id\_48\_pickup Time(1320,1320) ->  
order\_id\_12\_pickup Time(1654,1654) -> order\_id\_48\_drop Time(1751,1751) -> order\_id\_50\_pickup  
Time(1873,1873) -> order\_id\_50\_drop Time(2096,2096) -> order\_id\_12\_drop Time(2329,2329) ->  
Route\_END Time(2329,2329)

Time of the route: 2329 seconds

Cost of the route: \$40473

Distance of the route: 13491 meters

Delay of the route: 0 seconds

=====

Route for driver 39:

Driver\_39\_Start Time(0,0) -> Route\_END Time(0,0)

Time of the route: 0 seconds

Cost of the route: \$0

Distance of the route: 0 meters

Delay of the route: 0 seconds

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## Route Metrics:

Maximum of the route costs: \$56518

Total route cost: \$636478

Total route time: 84618 seconds

Total route distance: 337102 meters

Total route delay: 13282 seconds