原版的case解,,,,,,手工的case4+case11,,,,,如果要详细的解构, 那就得我手工画了

10s内的结果:repasslink1:0 cost:11994+9620=21614 1min内最优解:repasslink1:0 cost:11864+9530=21394

 $\frac{1|16|45|8|14|29|30|33|38|44|4636|4637|49|146|157|177|182|187|150|148|240|64|94|57|98|194|205|227|10}{9|131|4638|4639|270|265|1104|2287|1542|1310|2028|2238|734|1977|2051|1195|1871|448|638|807|962|9}{94|553|484|279|1224|1053|1566|1889|2081|1573|550|627|1270|2070|667|508|811|610|1327|1145|2062|1}{118|1633|1890|1937|1305|1408|1294|1898|1219|758|582|520|456|771|556|560|1348|1658|2034|269|427|}{1166|751|681|1603|1213|1765|1108|1801|2204|632|351|349|386|2104|2117|562|459|359|1412|393|372|3}{70|1705|1038|917|1035|1382|1060|1914|2050|1031|2251|2178|2212|940|1432|1971|1896|2139|798|605|4}{28|1615|1698|1851|2046|2174|1377|1496|1154|2283|4746|2384|2347|2352|2374|2304|2327|2387|2416|2}{535|2329|2435|2464|2467|2335|4642|4643|2568|2570|2588|2615|2817|2751|2669|2667|4002|3335|3214|3332|3679|3357|4211|4347|3329|3389|4367|2964|2805|3108|2907|3624|3443|4243|3458|3568|2617|259}{4|2630|2745|2935|3104|3259|3291|2850|2781|2576|3521|3350|3863|4186|4378|3868|3955|4331|2566|2724|3463|3048|2978|3900|3510|4062|3405|4098|4501|2929|2648|2646|2683|4401|4414|2859|2760|3094|3}{415|3930|4187|4234|3602|3705|3591|4195|3516|3057|3237|3729|4268|4193|4436|3095|2902|2725|3912|3995|4148|4343|4471|3674|3793|3451|4581|4584|3839|3607|4325|4535|3034|3844|3961|3068|2853|2858|3893|4644|4645|4589|4604|4633|4596|4602|4617|4618|4621|4626|4632$

0|28|15|31|39|25|13|34|43|6|4|4736|4737|48|76|145|160|190|149|158|173|174|178|185|183|171|63|79|87|73|61|82|91|54|52|58|97|112|142|101|193|208|238|197|206|221|222|226|233|231|219|110|125|126|130|137|135|123|4738|4739|271|274|305|770|1556|368|1744|1273|2168|2258|1939|1247|2160|1455|1132|1306|891|602|1243|296|1056|1596|4640|4641|2292|2307|2337|2296|2339|2368|2369|2373|2380|2378|2364|2351|2355|2385|2343|2305|2320|2388|2402|2418|2426|2412|2400|2421|2430|2393|2391|2321|2325|2436|2450|2466|2474|2460|2448|2469|2478|2441|2439|2332|2330|2484|2498|2514|2522|2508|2496|2517|2526|2489|2487|2318|4742|4743|2567|2560|3641|3739|4009|2841|4122|2571|2602|3067|3853|2665|4043|4261|4161|3560|2796|2876|3891|4093|3833|3966|3186|3540|2591|4744|4745|4588|4616|4603|4619|4627|4613|4601|4622|4631|4594|4592

原版的case中去掉这个边,也就是topo中的最后一行,4746,569,605,51 因为去掉这一行,我们根本求不出来无重复边的解,所以是后来人为添加的 10min(是分钟不是秒!!!) 内最优解: repasslink1:0 cost:12053+9970=22023

 $\frac{1|16|45|8|14|29|30|33|38|44|4636|4637|49|146|157|177|182|187|150|148|240|64|94|57|98|194|205|227|10}{9|131|4638|4639|271|273|291|318|520|454|372|371|383|1215|1294|1898|1219|760|940|1432|1971|1896|2}\\ 139|798|605|428|1615|1698|1853|550|627|1271|320|297|333|448|638|807|962|994|553|484|279|1224|105\\ 3|1566|1889|2081|1571|1660|2070|667|508|812|1312|1474|1035|1382|1060|1914|2050|1031|2251|2178|2\\ 211|1000|1297|1327|1145|2062|1118|1633|1893|2283|2265|260|269|427|1166|751|681|1603|1213|1761|1\\ 835|2046|2174|1377|1496|1153|1882|1459|1907|2273|1801|2204|632|351|349|386|2104|2117|562|459|35\\ 9|1412|395|2266|2287|1542|1310|2028|2238|737|1547|1664|771|556|561|1596|4640|4641|2293|2340|235\\ 5|2384|2347|2353|2368|2371|2304|2327|2387|2416|2535|2329|2435|2464|2467|2335|4642|4643|2568|25\\ 70|2588|2615|2817|2751|2669|2668|2680|3512|3591|4195|3516|3057|3237|3729|4268|4193|4436|3095|2\\ 902|2725|3912|3997|2964|2805|3109|3609|3771|3332|3679|3357|4211|4347|3328|4548|4475|4508|3297|3594|3624|3443|4243|3458|3568|2617|2594|2630|2745|2935|3104|3259|3291|2850|2781|2576|3521|335\\ 0|3863|4186|4378|3868|3955|4331|2566|2724|3463|3048|2978|3900|3510|4058|4132|4343|4471|3674|37\\ 93|3450|4179|3756|4204|4570|4098|4501|2929|2648|2646|2683|4401|4414|2859|2760|3094|3415|3930|4\\ 190|4581|4584|3839|3607|4325|4535|3034|3844|3961|3068|2853|2858|3893|4644|4645|4589|4604|4633|4596|4602|4617|4618|4621|4626|4632$

 $0|28|15|31|39|25|13|34|43|6|4|4736|4737|48|76|145|160|190|149|158|173|174|178|185|183|171|63|79|87|7\\3|61|82|91|54|52|58|97|112|142|101|193|208|238|197|206|221|222|226|233|231|219|110|125|126|130|137|135|123|4738|4739|270|263|1344|1442|1712|544|1825|274|305|770|1556|368|1746|1964|1864|1263|499|$

579|1594|1796|1536|1669|889|1243|294|4740|4741|2292|2307|2337|2296|2339|2367|2354|2370|2378|2364|2352|2373|2382|2345|2343|2305|2320|2388|2402|2418|2426|2412|2400|2421|2430|2393|2391|2321|2325|2436|2450|2466|2474|2460|2448|2469|2478|2441|2439|2332|2330|2484|2499|2529|2488|2497|2512|2513|2517|2524|2522|2510|2318|4742|4743|2567|2560|3641|3739|4009|2841|4122|2571|2602|3067|3853|2665|4043|4261|4161|3560|2796|2876|3891|4093|3833|3966|3186|3540|2591|4744|4745|4588|4616|4603|4619|4627|4613|4601|4622|4631|4594|4592

原版的case的pro版本就是去掉上面最后一行的那个边,然后在加上一些干扰边, 最优解理论上是和上面去掉最后一行后是一样的。新添加的是无用边,是不能用的边。 Pro版本我的代码跑不了,干扰边对我来说太坑了,

网上下载的case,

10s内的解:repasslink1:7 cost:48826+45247=94073 1min内的解:repasslink1:7 cost:48792+45247=94039

16518|21797|7683|38934|26552|23719|10767|1254|8006|32659|11389|15646|38168|29862|23907|8489| 38634|18515|26864|12422|39785|11513|23373|6475|26722|8099|24931|17310|12604|39054|8141|22478 |23969|36624|20579|6142|27485|37990|25055|23562|38745|20100|10758|12696|11050|8827|5313|2958 4|5824|6893|13499|18780|36115|22688|26415|881|10834|16044|15468|6230|20222|16526|4848|5961|36 755|31738|5788|22836|1713|1626|20574|1565|22470|28408|17221|35031|17803|28903|16142|29959|81 73|21712|29231|22050|18512|29725|16014|5666|33167|20824|29244|30605|37100|18606|3027|23979|3 8956|20202|14312|510|17191|36226|20263|19367|2451|7293|29328|6666|25719|18403|17688|24446|15 652|9080|26645|28355|15632|15140|10405|16848|12087|38412|17009|13371|2127|27547|34785|7850|2 1206|6023|2438|14959|20465|22723|23055|24007|8631|20529|18949|34770|13717|11571|36854|25893| 30349|37208|9360|7357|5338|4811|13975|24220|18842|34966|30750|28104|16598|27103|34712|16885| 39255|13600|15599|13406|570|24148|4653|4439|30509|35013|14252|12441|6335|26174|8858|21632|17 554|1006|22935|26545|35908|8869|23561|6381|3683|5013|25632|21868|12856|8100|9038|15946|37592| 36329|29931|12704|5694|7580|6640|39885|1525|18675|17947|13149|29999|5422|12873|31410|5255|36 519|36576|15785|1567|19288|3320|32583|36390|13202|34745|19898|10267|20|30|20435|20866|29035|2 3622|13596|25289|21063|38072|10364|28115|20455|22527|11288|32191|28002|4459|10881|25035|2578 9|17675|20981|5758|23886|26593|1163|5749|584|6282|26024|20927|16719|11958|27184|34194|30770|1 5565|22086|23791|13804|27274|2223|26562|21962|36169|129|34737|9082|37090|7515|30629|33160|19 553|16183|5730|7767|39844|18834|9008|33139|18860|18687|3778|11564|25929|34787|23338|27812|28 16|34179|2623|17740|32300|32600|6474|36835|2167|2123|14665|15343|36686|25167|7452|2922|25397| 9413|28815|17305|12666|20730|22077|6096|22514|16602|19557|10375|13892|17416|5409|36878|28477 |35529|3929|38341|25463|2463|37033|10505|25422|23667|31662|21134|28389|6046|39203|18779|1154 1|14476|3916|3447|4950|11044|12572|16237|31496|38567|34451|13068|14399|29358|37107|22975|634 6|34343|27271|36620|7705|7703|1909|34393|3274|2089|27383|38812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38401|37394|14609|10191|5980|28812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|38812|39684|15394|16213|13393|6202|35859|13819|29031|35806|34815|27368|36515|34658|205|26211|2539|9 856|184|30377|10317|24975|8119|27817|37162|24729|19699|3179|2133|32106|24348|25237|8807|3308 7|9344|28639|21607|38678|6328|19055|20415|32857|24812|13997|35738|36487|9112|6198|16525|3496 1|13078|27246|18884|14715|18178|11888|35245|2054|32892|25305|33725|12158|27034|35137|27264|1 4698|28996|8414|37287|28892|28695|32544|30767|36885|7956|19896|12593|12055|34456|12153|34780 |21756|6089|30338|30977|22276|20496|28777|15252|36221|6338|36280|35925|21424|20867|34918|508 4|22855|18913|28679|11737|38908|27591|35046|11254|12822|23794|18638|21346|22763|32484|13839| 25128|35139|30840|17420|28693|15135|36817|14942|26678|13658|26481|16367|33800|7369|1505|1991

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|4825||13422||8527||29524||3518||29176||31253||7184||30833||36539||16961||7222||38116||11357||33992||29565||1
560|26492|17607|2148|36482|25575|16226|18885|37519|1561|4453|33810|3556|18597|20512|27821|38
347|19956|15576|33707|9892|32237|17640|20659|19916|29590|24089|21233|19392|1667|4742|31707|3
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| 15894 | 22622 | 1671 | 28285 | 1387 | 18605 | 4966 | 18643 | 36337 | 9598 | 5771 | 10821 | 8706 | 8622 | 31675 | 10391 | 380
43|17394|33448|19978|14672|9224|6226|37286|34060|25304|21774|36991|4786|23090|14037
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9007|19500|12889|3271|29957|26153|28073|20121|7410|17538|38592|14579|32603|38881|26636|7571|
2838|23578|37359|16419|24851|3188|21158|29356|30357|28359|30409|3019|36498|7999|38020|36284|
22253|37714|6917|27934|31277|31355|37404|9290|22132|9585|28147|9260|21352|10702|16641|26963|
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5|10157|14463|26013|6536|6448|23572|18410|16188|15788|13310|27454|19760|11062|14319|7146|319
07|6530|30068|10826|18523|30396|16113|5663|39469|14342|22205|35387|24579|20184|28664|1|17279|
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|163|35032|26076|28188|877|13764|35338|35891|1575|13467|38627|21824|2772|3186|18763|29648|974
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240|8087|18781|2935|13994|9491|19382|35684|37855|39603|25505|467|26862|18609|27990|16270|384
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|28447|12678|3737|24113|32467|27984|24927|29911|15478|4969|26189|10939|2742|35005|25857|3377
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4|5775|33815|300|409|30239|16825|11896|32360|39829|34699|32841|7695|29425|19344|7211|11203|26
173|4309|20767|25550|17350|10745|13755|17870|39546|20441|8168|24768|13856|16482|13023|5247|2
6074|39214|38947|3789|28736|22106|4061|26310|39028|1465|10004|28609|39704|23319|27813|32183|
33753|21598|25662|28428|30996|3078|8638|38172|35487|17611|7462|26891|13942|39748|37389|30280
|10778|3552|32224|9256|19638|38540|3084|11782|17041|33066|3379|19306|36030|22311|15294|29972|
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