# Test 1

## Input trajectory: E6 North Bound from Gothenburg

### Input road segments:

4040443L, 111626846L, 50898254L, 286430790L, 1022912246L, 1022912245L, 4498560L, 50898242L, 116615258L, 1022912248L, 1022912247L, 116614206L, 116613456L, 116613464L, 116613466L, 1022919224L, 1022919223L, 4498563L, 705749709L, 1022919213L, 1022919212L, 58703991L, 1022912242L, 1022912241L, 222217365L, 222217364L, 408861785L, 408861788L, 655106674L, 1022912221L, 1022912220L, 222217361L, 408861787L, 539199603L, 540043595L, 214287031L, 707848133L, 214860684L, 214860680L, 1023025708L, 1023025707L, 1043543292L, 1043543291L, 165528067L, 440330697L, 440330706L, 619559322L, 440330703L, 1023025740L, 440330699L, 440330694L, 940731592L, 940731589L, 707852415L, 940731591L, 142028779L, 707853120L, 1023025743L, 1023025742L, 213579174L, 707853635L, 940731572L, 940731569L, 8132639L, 940731568L, 1023025764L, 1023025763L, 226048675L, 941040141L, 236557696L, 619559321L, 284404463L, 4865150L, 214860674L, 284402509L, 284402514L, 237772652L, 13865741L, 13865742L, 619559320L, 226048674L, 284402024L

### Open LR 64-bit binary encoded string for input segments:

CwiHtCkKRAEcvgRpJcUBH3H0ABT0AQw=

### Result:

Test passed

### Open LR Decoder output:

Output file: decoder\_out\_4040443.txt

# Test 2

## Input trajectory: E6 Bound South Bound from Kungälv

### Input road segments:

4040302L, 284402021L, 226048677L, 13865743L, 13865744L, 284402510L, 284402511L, 941040131L, 215041207L, 941040130L, 4040303L, 1023025755L, 1023025754L, 941040134L, 941040135L, 941040138L, 941040136L, 941040139L, 941040137L, 183156782L, 941040140L, 1023025761L, 1023025760L, 236557699L, 940731566L, 940731570L, 940731567L, 1023025749L, 1023025748L, 4077750L, 940731571L, 1023025746L, 1023025745L, 290070332L, 940731576L, 940731595L, 940731577L, 940731594L, 213798704L, 940731593L, 1023025738L, 1023025737L, 165275007L, 284407459L, 284408726L, 165275002L, 1023025711L, 1023025710L, 284408727L, 284408724L, 215041210L, 1023025705L, 1023025704L, 284408723L, 620024876L, 284409597L, 214290381L, 1023025694L, 1023025693L, 284409596L, 183028746L, 1023025691L, 1023025690L, 395613919L, 1022912232L, 1022912231L, 1022912205L, 1022912204L, 222217359L, 1022912223L, 1022912222L, 655106675L, 1022912240L, 1022912239L, 669005156L, 1022919210L, 1022919209L, 116613465L, 1022919220L, 1022919219L, 471650441L, 1022919226L, 116613461L, 471650443L, 116613463L, 116614208L, 116614211L, 116614205L, 116614212L, 41291138L, 116614207L, 118631478L, 1022912228L, 1022912227L, 1022912207L, 1022912206L, 990532266L, 990532264L, 990532265L, 168975966L

### Open LR 64-bit binary encoded string for input segments:

CwiEJCklngEM9wR80AABEDkDFfU8ARs=

### Result:

Test passed

### Open LR Decoder output:

Output file: decoder\_out\_4040302.txt

# Test 3

## Input trajectory: E20 South Bound towards Gothenburg from Partile

### Input road segments:

10275796L, 297042445L, 297042446L, 297042449L, 297042448L, 38870034L, 297039823L, 788071871L, 38805087L, 44131530L, 297013899L, 297013902L, 297013900L, 297013896L, 37016935L, 37016934L, 788071866L, 480294687L, 37016051L, 37016052L, 297012011L, 297012010L, 238455645L, 297012008L, 14676029L, 14676018L, 297011998L, 297012005L, 36834982L, 36834983L, 297012012L, 297012007L, 297011999L, 4077772L, 232059515L, 232059517L, 50302487L, 50302489L, 224140163L, 224204322L, 1023361815L, 1023361814L, 1054074519L, 1054074518L, 224204323L, 177388057L, 1023361825L, 1023361824L, 177388079L, 113713018L, 1023361845L, 1023361844L, 177388064L, 1023361855L, 1023361854L, 224204324L, 41453527L, 41453525L, 29971891L, 29971892L, 4040441L, 1023059954L, 1023059953L, 311088497L, 1023059959L, 1023059958L, 1023059964L, 1023059963L, 307347737L, 990532281L, 1023059969L, 1023059968L, 4040484L

### Open LR 64-bit binary encoded string for input segments:

CwjZDCkg2AEV7bji40YBE/6m/fFUARYw8Q77agEf

Result: Test failed at the decoding stage

### Open LR Decoder output:

Output file: decoder\_out\_ 10275796.txt

# Test 4

## Input trajectory: E20 South Bound towards Gothenburg from Partile (some segments were removed on the Gothenburg side)

### Input road segments:

10275796L, 297042445L, 297042446L, 297042449L, 297042448L, 38870034L, 297039823L, 788071871L, 38805087L, 44131530L, 297013899L, 297013902L, 297013900L, 297013896L, 37016935L, 37016934L, 788071866L, 480294687L, 37016051L, 37016052L, 297012011L, 297012010L, 238455645L, 297012008L, 14676029L, 14676018L, 297011998L, 297012005L, 36834982L, 36834983L, 297012012L, 297012007L, 297011999L, 4077772L, 232059515L, 232059517L, 50302487L, 50302489L, 224140163L, 224204322L, 1023361815L, 1023361814L, 1054074519L, 1054074518L, 224204323L, 177388057L, 1023361825L, 1023361824L, 177388079L, 113713018L, 1023361845L, 1023361844L, 177388064L, 1023361855L, 1023361854L, 224204324L, 41453527L, 41453525L, 29971891L, 29971892L, 4040441L, 1023059954L, 1023059953L, 311088497L, 1023059959L, 1023059958L, 1023059964L, 1023059963L, 307347737L, 990532281L, 1023059969L, 1023059968L

### Open LR 64-bit binary encoded string for input segments:

CwjZDCkg2AEV7bji40YBE/6m/fFUARYw8Q77agE/FA==

### Open LR Decoder output:

Output file: decoder\_out\_ 10275796ab.txt

### Result:

Test failed at the decoding stage

# Test 5

## Input trajectory: E20 South Bound towards Gothenburg from Partile (some segments were removed on the Gothenburg side)

### Input road segments:

10275796L, 297042445L, 297042446L, 297042449L, 297042448L, 38870034L, 297039823L, 788071871L, 38805087L, 44131530L, 297013899L, 297013902L, 297013900L, 297013896L, 37016935L, 37016934L, 788071866L, 480294687L, 37016051L, 37016052L, 297012011L, 297012010L, 238455645L, 297012008L, 14676029L, 14676018L, 297011998L, 297012005L, 36834982L, 36834983L, 297012012L, 297012007L, 297011999L, 4077772L, 232059515L, 232059517L, 50302487L, 50302489L, 224140163L, 224204322L, 1023361815L, 1023361814L, 1054074519L, 1054074518L, 224204323L, 177388057L, 1023361825L, 1023361824L, 177388079L, 113713018L, 1023361845L, 1023361844L, 177388064L, 1023361855L, 1023361854L, 224204324L, 41453527L, 41453525L, 29971891L, 29971892L, 4040441L, 1023059954L, 1023059953L, 311088497L, 1023059959L, 1023059958L, 1023059964L, 1023059963L, 307347737L

### Open LR 64-bit binary encoded string for input segments:

CwjZDCkg2AEV7bji40YBE/6m/fFUARYw8Q77agE/GA==

### Open LR Decoder output:

Output file: decoder\_out\_ 10275796aa.txt

### Result:

Test failed at the decoding stage

# Test 6

## Input trajectory: E20 South Bound towards Gothenburg from Partile (some segments were removed on the Partille side)

### Input road segments:

14676018L, 297011998L, 297012005L, 36834982L, 36834983L, 297012012L, 297012007L, 297011999L, 4077772L, 232059515L, 232059517L, 50302487L, 50302489L, 224140163L, 224204322L, 1023361815L, 1023361814L, 1054074519L, 1054074518L, 224204323L, 177388057L, 1023361825L, 1023361824L, 177388079L, 113713018L, 1023361845L, 1023361844L, 177388064L, 1023361855L, 1023361854L, 224204324L, 41453527L, 41453525L, 29971891L, 29971892L, 4040441L, 1023059954L, 1023059953L, 311088497L, 1023059959L, 1023059958L, 1023059964L, 1023059963L, 307347737L, 990532281L, 1023059969L, 1023059968L, 4040484L

### Open LR 64-bit binary encoded string for input segments:

CwjMHSka2QEU/64y6JoBGbm+fPRJAV/m

### Result:

Test passed

### Open LR Decoder output:

Output file: decoder\_out\_ 10275796c.txt and Output file: decoder\_out\_ 10275796zz.txt

# Test 7

## Input trajectory: E20 North Bound from Gothenburg

### Input road segments:

4040439L, 236128323L, 1023059966L, 1023059965L, 311088481L, 1023059957L, 1023059956L, 311088493L, 311088488L, 311088485L, 307347738L, 311088494L, 1023361859L, 1023361858L, 29971895L, 41453517L, 41453518L, 27705234L, 311088484L, 1023361853L, 1023361852L, 177392286L, 296767278L, 4077768L, 1023361849L, 1023361848L, 113713017L, 177388074L, 1023361818L, 1023361817L, 177388073L, 224164637L, 29370060L, 296768801L, 211442625L, 1047427650L, 1047427651L, 211442626L, 1047427653L, 297008483L, 232059516L, 39237215L, 297008482L, 297008481L, 297012004L, 297012018L, 4077773L, 297012003L, 38805554L, 36834984L, 297012015L, 14676011L, 37434727L, 297012000L, 37434723L, 297012002L, 297012001L, 238455646L, 297012006L, 297012009L, 37016053L, 37016134L, 297013903L, 789624484L, 297013897L, 37016937L, 37016936L, 297013904L, 297013901L, 297013898L, 297013905L, 38805084L, 44131532L, 74696148L, 297042451L, 297042450L, 297042444L, 297042447L, 297042452L

### Open LR 64-bit binary encoded string for input segments:

CwiHtCkKRAEb3U2PC2wBB/pPUxqVAQZHEbYKaAEV

### Result:

Test passed

### Open LR Decoder output:

Output file: decoder\_out\_4040439.txt

# Test 8

## Input trajectory: E45 North Bound from Gothenburg

Input road segments:

117090882L, 1023578390L, 1023578389L, 1019682210L, 1023578397L, 1023578396L, 296756782L, 642972761L, 620077872L, 296762121L, 1023578402L, 1023578401L, 1023578403L, 630771371L, 19203432L, 117090878L, 231076592L, 539515645L, 539515643L, 655070719L, 655070718L, 655070717L, 655070716L, 539515646L, 756571033L, 844533530L, 1023059896L, 1023059895L, 168975965L, 1023059899L, 1023059898L, 46827875L, 46827873L, 1023059908L, 230824476L, 621696172L, 1023059915L, 1023059914L, 46827848L, 46827832L, 990532259L, 1023059922L, 1023059921L, 46828069L, 1023361867L, 1023361866L, 50113223L, 1023059927L, 1023059926L, 288451590L, 1023059930L, 1023059929L, 1023361689L, 1023361688L, 221131563L, 1023361692L, 1023361691L, 386940538L, 322636827L, 322636826L, 1023361686L, 322636829L, 378419819L, 322636825L, 322636828L, 1023361664L, 1023361663L, 50898241L, 330628389L, 8108305L, 8108302L, 166757950L, 159588667L, 1023361657L, 1023361656L, 360164715L, 360164714L, 1023361652L, 1023361651L, 136449123L, 136449120L, 159588676L, 1023361633L, 1023361632L, 168170117L, 222513098L, 440082453L, 1023361616L, 1023361615L, 231037645L, 159588688L, 15677001L, 23093407L, 1023361621L, 1023361620L, 237666040L, 793540800L, 793540802L, 793540805L, 237772647L

### Open LR 64-bit binary encoded string for input segments:

Cwh8aCkH7won6CBNJmUKIHsBNxk1ARI=

### Result:

Test passed

### Open LR Decoder output:

Output file: decoder\_out\_117090882.txt

# Test 9

## Input trajectory: E45 South Bound to Gothenburg

Input road segments:

237772646L, 793540806L, 793540803L, 793540801L, 237772649L, 237666039L, 363478100L, 149935901L, 15677000L, 159588687L, 1023361608L, 1023361607L, 231037644L, 159588672L, 168170120L, 159588689L, 1023361646L, 1023361645L, 168170119L, 136449119L, 136449128L, 360164713L, 360164716L, 159588668L, 1023361660L, 1023361659L, 166754881L, 8108307L, 547407107L, 46759578L, 221131562L, 322636831L, 322636830L, 1023361683L, 1023361682L, 221131565L, 221131567L

### Open LR 64-bit binary encoded string for input segments:

Encoding failed for this set, possibly due to problems with connectedness in the input.

### Result:

Test failed at the encoding stage.