1. L = 10, c = 3, k = 6

CCCATATACACGTCTAACGTACTGGATCTGGAGGGTGAGTCCTTTATTCGTCCCTCCTCTGTTTGATAAATCAATGGTAGAGTCAGCCCGATACATTTTGCGAATTACACGTTGGTTGTACACACTATTTTGGTGCCAGGGGTGGGACGTCAGAGCCAGCCAGTTAGAACGAGTCGGTACAGGATATGTTCTGGTCGGAC

1. L = 10, c = 6, k = 6

CCCATATACACGTCTAACGTACTGGATCTGGAGGGTGAGTCCTTTATTCGTCCCTCCTCTGTTTGATAAATCAATGGTAGAGTCAGCCCGATACATTTTGCGAATTACACGTTGGTTGTACACACTATTTTGGTGCCAGGGGTGGGACGTCAGAGCCAGCCAGTTAGAACGAGTCGGTACAGGATATGTTCTGGTCGGAC

This is because the end k-1 mer of the first part of the contig is the same as the start k-1 mer of the second part of the contig “GAGTC”. Our guess is to increase k. But increasing k gives us too many contigs cos the coverage is not enough to have enough k-1 mer overlaps. Therefore, we increase c.

1. L = 16, c = 11, k = 8

CCCATATACACGTCTAACGTACTGGATCTGGAGGGTGAGTCCTTTATTCGTCCCTCCTCTGTTTGATAAATCAATGGTAGAGTCAGCCCGATACATTTTGCGAATTACACGTTGGTTGTACACACTATTTTGGTGCCAGGGGTGGGACGTCAGAGCCAGCCAGTTAGAACGAGTCGGTACAGGATATGTTCTGGTCGGAC

1. L = 16, c = 11, k = 8

CCCATATACACGTCTAACGTACTGGATCTGGAGGGTGAGTCCTTTATTCGTCCCTCCTCTGTTTGATAAATCAATGGTAGAGTCAGCCCGATACATTTTGCGAATTACACGTTGGTTGTACACACTATTTTGGTGCCAGGGGTGGGACGTCAGAGCCAGCCAGTTAGAACGAGTCGGTACAGGATATGTTCTGGTCGGACAGGCACGATTGGACCCCTACTTACGCGATCATCTGAGGACGCGATCCTAAATAGGCACTCTCACATGGTCGCAGGCACCGATCAAGTGCTACCTATTTGCCATAAGTTTGCCTAATAGAAAGTGGGGGCTTGAACACGGGAGTGGTTCCACGGAGTTAGGCAGTGTCACGATAAAACAACTATGCGACACGCGTGCACGCGTACAATGGAGACAGCAGCCGAGGTCTCCTATCTATATGCGGGTGAAAATAACGCGCTTTATCTTACCAGCCTAACGTCTGTCGTGACCTATGATACTAC

ATCTGAGGACGCGATC  
CTTTATCTTACCAGCC  
GTCGGACAGGCACGAT  
CACGCGTACAATGGAG  
CTATATGCGGGTGAAA  
ACGTTGGTTGTACACA  
AGTCCTTTATTCGTCC  
TGGACCCCTACTTACG  
GAGTCGGTACAGGATA  
TTTGGTGCCAGGGGTG  
GGACAGGCACGATTGG  
ACCCCTACTTACGCGA  
CGATCATCTGAGGACG  
TTTATCTTACCAGCCT  
GTTGGTTGTACACACT  
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CTTACGCGATCATCTG  
GCCGAGGTCTCCTATC  
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GCTTGAACACGGGAGT  
GCTACCTATTTGCCAT  
TCATCTGAGGACGCGA  
CAGCCGAGGTCTCCTA  
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TGTACACACTATTTTG  
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CAGTGTCACGATAAAA  
TCAGCCCGATACATTT  
CAATGGAGACAGCAGC  
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GCCGAGGTCTCCTATC  
GATACTAC  
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CCAGTTAGAACGAGTC  
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CGTCCCTCCTCTGTTT  
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ACACTATTTTGGTGCC  
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GAGTCGGTACAGGATA  
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TTGGTGCCAGGGGTGG  
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GCAGGCACCGATCAAG  
TATTTGCCATAAGTTT  
CGCGCTTTATCTTACC  
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ACCGATCAAGTGCTAC  
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