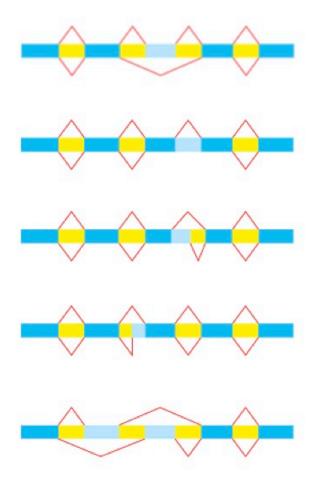
What types of splicing do these represent?



Paper PCR:
You have the following sequence you'd like to amplify (make more of). Though it is shown on it's own here, it's actually embedded in a longer genomic sequence.
5' ATGCGGTCAGTATGGGCTCAGTCGTTTACGGGACATTGACAGTCAGCTTCAAACGATCGC 3' 3' TACGCCAGTCATACCCGTGTCAGCAAATGCCCTGTAACTGTCAGTCGAAGTTTGCTAGCG 5'
What are the sequences of the two primers you need to make? Make your primers 10 nucleotides long. Be sure to write them in the traditional $5' \rightarrow 3'$ direction.
In the first round of PCR, what are the results you get?
The second round?
How many pieces of DNA will you have after the 10^{th} round, if you started with a single piece of DNA?

Paper Sequencing:

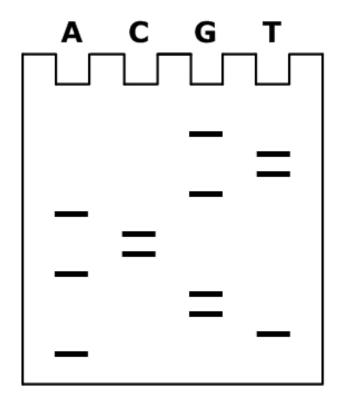
If I have the sequences below, what are the potential DNA sequences to come out of each dideoxyNTP pot?

5'GACTCGGGTATGACTGGCGTA 3' sequencing primer: 5' *TAC '3

ddATP ddGTP ddTTP ddCTP

Paper Electrophoresis:

If we get the following gel after our gel electrophoresis, what does that mean the sequence of the growing strand is?



What is the sequence this chromatograph represents? Green=A, Black=G, Read=T, Blue=C

