coupleDna function must have five arguments that represent five RNA chains of length ten. Only two of these five RNA chains can fit together to form an adequate DNA chain. coupleDna function must seek for these two pairs, and after determining the fitting two RNA chains, must merge these two RNA chains to form a DNA chain. The output of the coupleDna function must be the DNA chain.

- It is assumed that there are at most and at least two matching RNA chains appear among the five.
- It is not important in which order they appear.
- Both the DNA chain and the RNA chains in your program must use the same linked-list structure to store the genetic data.
- Each linked-list node must store a string. The length of the string can be either one, or two.
- If the length of the strings in each node of the linked-list is one, then the linked-list represents a RNA chain and the strings can include only one of the four letters: **A**, **T**, **G** or **C**.
- If the length of the strings in each node of the linked-list is two, then the linked-list represents a DNA chain and the string can be any of the following four combinations: **AT**, **TA**, **GC**, **CG**.
- Use capital letters to represent nucleic acids.
- In the beginning of your program, you must call a function to print the given five RNS chains to the screen. The name of the function is printRnas.
- In the end of your program, you must print the resulting DNA chain with a function named printDna.
- For the sake of simplicity, all RNA chains', so the resulting DNA's length is 10.

## Code snippet to test:

```
// You may initialize linked-lists any way you like. Here, it is assumed here that
// you have written an initRna function to easily initialize RNA chains.
linkedList *rna1 = initRna("ATGATGATGC");
linkedList *rna2 = initRna("TCGCGCTAGC");
linkedList *rna3 = initRna("CGTCGTAAAC");
linkedList *rna4 = initRna("TATTTACGAA");
linkedList *rna5 = initRna("TACTACTACG");

printRnas(rna1, rna2, rna3, rna4, rna5);
linkedList *dna = coupleDna(rna1, rna2, rna3, rna4, rna5);
printDna(dna);
```

## Sample run:

```
>./a.out
>1: A T G A T G A T G C
>2: T C G C G C T A G C
>3: C G T C G T A A A C
>4: T A T T T A C G A A
>5: T A C T A C T A C G
>AT TA GC AT TA GC CG
```