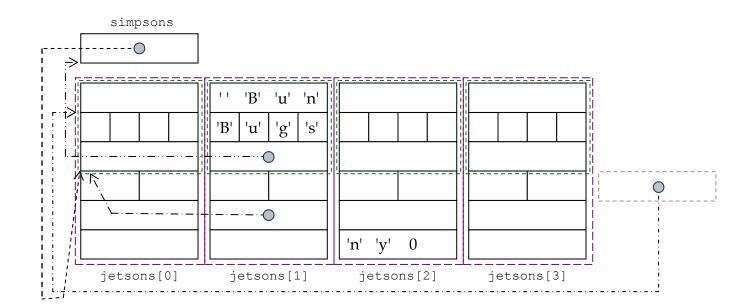
Section Solution

Problem 1: Meet The Flintstones

```
typedef struct rubble {
   int betty;
   char barney[4];
   struct rubble *bammbamm;
} rubble;
typedef struct {
   short *wilma[2];
   short fred[2];
   rubble dino;
} flintstone;
rubble *simpsons;
flintstone jetsons[4];
simpsons = &jetsons[0].dino;
jetsons[1].wilma[3] = (short *) &simpsons;
strcpy(simpsons[2].barney, "Bugs Bunny");
((flintstone *) (jetsons->fred))->dino.bammbamm = simpsons;
*(char **)jetson[4].fred = simpsons->barney + 4;
```



Problem 2: Scheme

```
/**
* Traverses a properly structured list, and returns the ordered
* concatenation of all strings, including those in nested sublists.
* When applied to the two lists drawn above, the following strings
* would be returned:
     ConcatAll(gameThree) would return "YankeesDiamondbacks"
     ConcatAll (nestedNumbers) would return "onethreesix"
* /
typedef enum {
  Integer, String, List, Nil
} nodeType;
static char *ConcatStrings(const char *first, const char *second)
  char *result = malloc(strlen(first) + strlen(second) + 1);
  strcpy(result, first);
  strcat(result, second);
  return result;
}
char *ConcatAll(nodeType *list)
  switch (*list) {
     case Integer:
     case Nil: return strdup("");
     case String: return strdup((char *)(list + 1));
  nodeType **lists = (nodeType **)(list + 1);
  char *front = ConcatAll(lists[0]);
  char *back = ConcatAll(lists[1]);
  char *result = ConcatStrings(front, back);
  free(front);
  free (back);
  return result;
```