Cannot Know What's in Memory After a Reference

In other words,

given only a `reference_t*`,

can we safely cast to a subtype pointer?

Absolutely not!

Without additional information, we have
no way to know what's in memory after the `reference_t`.

Separating the Bibliography by Type is Cumbersome

So … keep a bibliography for each type?

No. Separate lists are unattractive.

Why bother to have a type hierarchy
- if we have to operate separately
- on every type
- for every operation?

Instead, add dynamic type information.

Record Actual Type in a New Field

```
struct reference_t {
    double_list_t link;
    char* author_list;
    char* title;
    int32_t year;
    int32_t type;
};
```

a `reference_t`?
a `paper_t`?
a `book_t`?
an `arti_t`?
a `conf_paper_t`?
a `textbook_t`?
a `series_t`?

Use `switch` to Handle Each Subtype Separately

Then, in `print_citation`...

```
void print_citation
        (reference_t* ref)
{
    switch (ref->type) {
        case TYPE_PAPER: // ...
            break;
        case TYPE_BOOK: // ...
            break;
        // ...
}
```

Print in a distinct style for each subtype.

