13 Function Name Overloading in C++

Encoding the Parameter List

Incorrect!!!

```
f:
           push lr
           ret
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           :
           ret
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           :
           ret
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           push lr
           :
           ret
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           push lr
           ret
```

Encoding scheme

```
v: void
     i: int
     s: short int
     1: long int
     c: char
     b: Boolean
     f: float
     d: double
     zc: signed char
     uc: unsigned char
     ui: unsigned int
     us: unsigned short int
     ul: unsigned long int
void f(int i, char c)
   :
}
@f$ic:
          push lr
          ret
     f(1, '1');
translated to
          mov r0, '1'
          push r0
                                     Mangled
          mov r0, 1
                                      function
          push r0
                                       name
          bl @f$ic
          add sp, sp, 2
```

User-defined types

```
struct Point
{
    int x;
    int y;
};

Then the mangled name of the function

void f(Point p)
{
    :
}

is @f$5Point.

Why length precedes type name in user-defined type encoding???

struct i
{
    int x;
    int y;
};
```