

## Python Tutor: Visualize code in [Python](#), [JavaScript](#), [C](#), [C++](#), and [Java](#)

C (gcc 9.3, C17 + GNU extensions)

```

101   while ((c = getchar()) != '\n' && c != EOF) {
102   }
103
104
105
106
107
108
109
110 int main(){
111
112     char id[10];
113     strcpy(id,"imagica");
114     int noMembers =5;
115
116     struct Group * group = createGroup(noMembers , id
117     group = newGroup(group , 4, id);
118
119     return 0;
120 }
  
```

[Edit this code](#)

→ line that just executed

→ next line to execute

<< First < Prev Next > Last >>

Done running (97 steps)

Visualized with [pythontutor.com](#)

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[Move and hide objects](#)

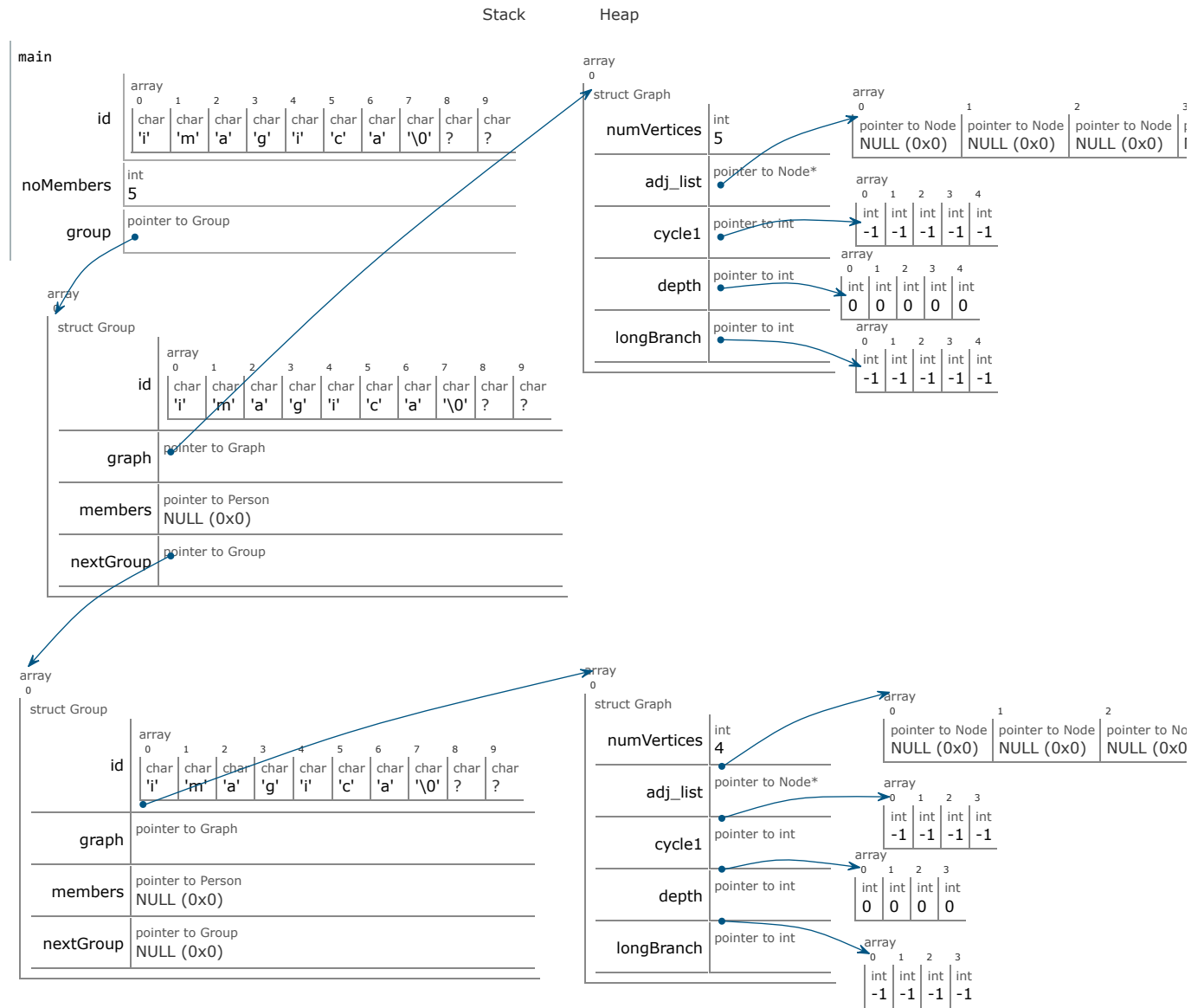
**Drag-and-drop any object in visualization** to move it around the screen

**Warning:** reloading page loses all changes, changes *NOT* shared in URLs

**Hide objects from visualization**

Hide these variables (see below for choices):

Choices: main:id, main:noMembers, main:group, createGroup:numVertices, createGroup:key, createGroup:newGraph, createGroup:new, createGraph:numVertices, createGraph:graph, createGraph:i, newGroup:group, newGroup:numVertices, newGroup:key, newGroup:new, newGroup:temp



Hide these object fields (see below for choices):

Choices: Graph:numVertices, Graph:<padding>, Graph:adj\_list, Graph:cycle1, Graph:depth, Graph:longBranch, Group:id, Group:<padding>, Group:graph, Group:members, Group:nextGroup

separate your choices with commas, use part after the colon to hide all objects with that name (e.g., to hide everything named foo, use foo instead of function\_name:foo)

Update visualization

#### Customize arrows:

Line style: Default

Curve:  10

Arrow length:  10

Arrow width:  7

Arrow fold:  0.55

**Note:** ? refers to an uninitialized value

**Note:** Pointers to structs, unions, and C++ objects may be ambiguous since a struct/object's address is the same as its first member and a union's address is the same as all its members. Select 'show memory addresses' below to see more details:

C/C++ [details](#): none [default view] ▼

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