ACM Fall 2021

CSIP 11

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Introduction

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Welcome!

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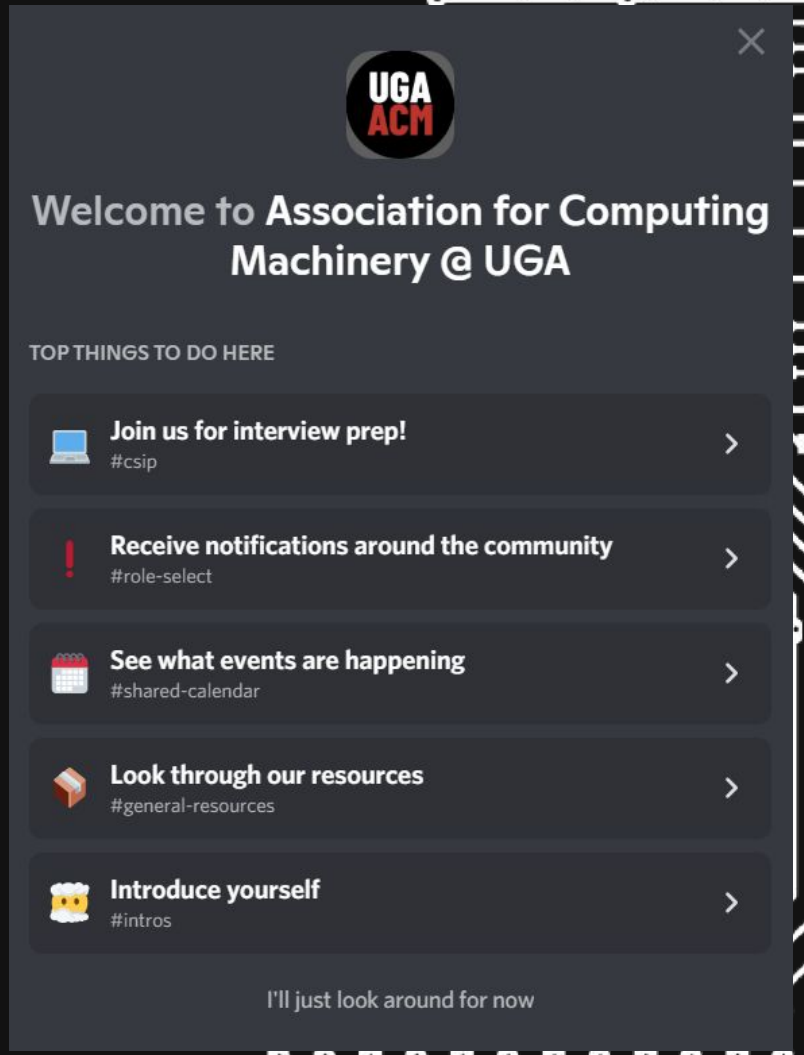
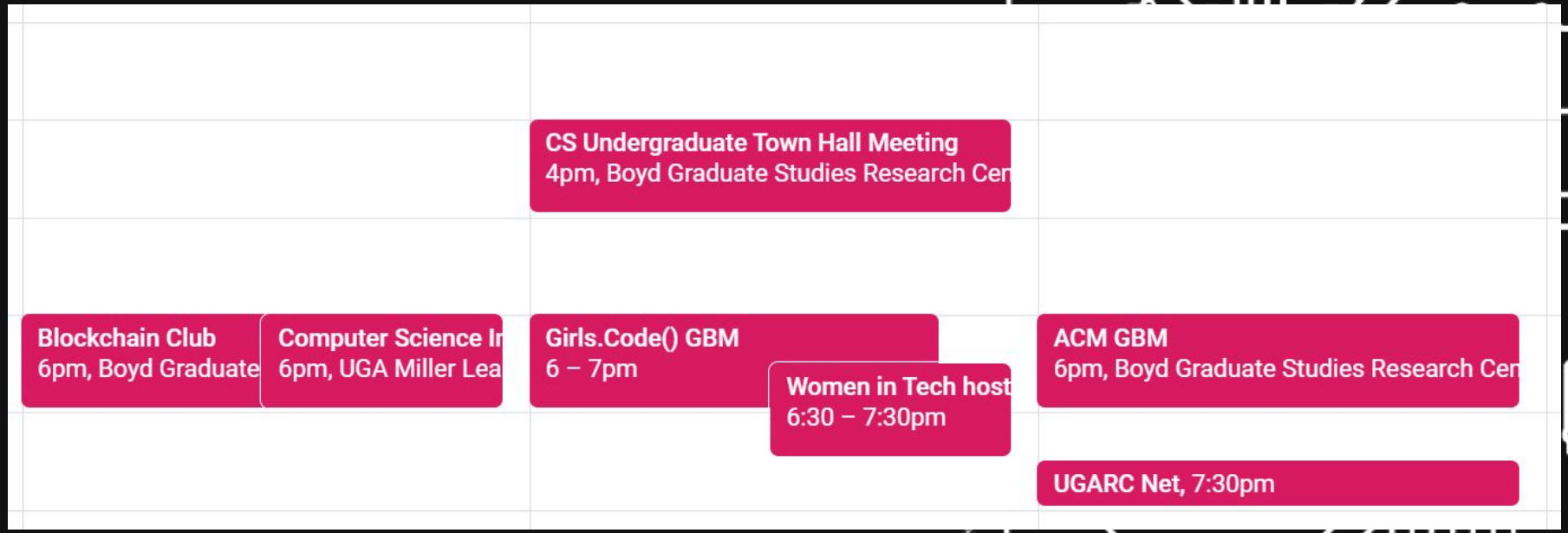

UGA ACM
Welcome to Association for Computing Machinery @ UGA
TOP THINGS TO DO HERE
Join us for interview prep!
#csip
Receive notifications around the community
#role-select
See what events are happening
#shared-calendar
Look through our resources
#general-resources
Introduce yourself
#intros
I'll just look around for now


CS Undergraduate Town Hall Meeting
4pm, Boyd Graduate Studies Research Cen
Blockchain Club
6pm, Boyd Graduate
Computer Science Ir
6pm, UGA Miller Lea
Girls.Code() GBM
6 – 7pm
Women in Tech host
6:30 – 7:30pm
ACM GBM
6pm, Boyd Graduate Studies Research Cen
UGARC Net, 7:30pm

Mental health resources

Upcoming Events

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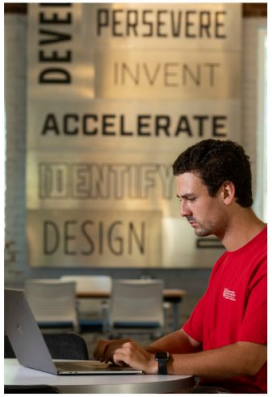
UNIVERSITY OF GEORGIA
Career Center



Virtual

Diversity & Inclusion Recruiting Quick Chats

November 10, 2021

5:00PM - 7:00PM

Pre-registration via Handshake is required. For more information, visit bit.ly/diversity_inclusionevents

Connect with employers via Zoom and gain professional development while learning how their companies value diverse talent. You will also learn about open jobs & internships they have available and have the opportunity to connect through a series of group networking sessions.

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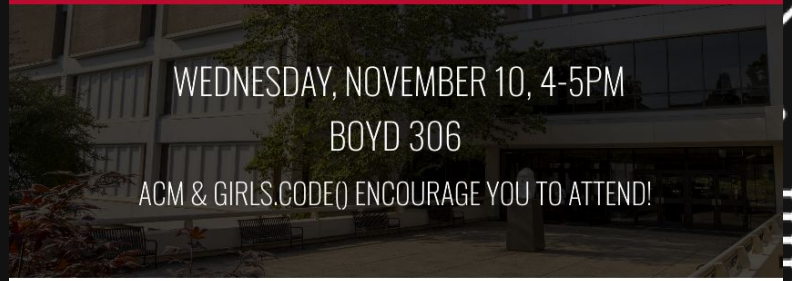
COMPUTER SCIENCE
TOWN HALL



DESCRIPTION

The goal of the meeting is to discuss the state of the department and provide a place to voice your concerns and ask questions. The department would love to hear about things that they do really well and areas where they can improve. Dr. Taha (department head) and Dr. Barnes (undergraduate coordinator) will be present at the meeting.

Department of Computer Science
Franklin College of Arts and Sciences
UNIVERSITY OF GEORGIA

ACM. GIRLS.CODE()

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Headshots (maybe)

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Practice

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141. Linked List Cycle

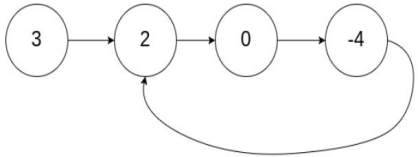
Easy 5964 680 Add to List Share

Given `head`, the head of a linked list, determine if the linked list has a cycle in it.

There is a cycle in a linked list if there is some node in the list that can be reached again by continuously following the `next` pointer. Internally, `pos` is used to denote the index of the node that tail's `next` pointer is connected to. **Note that `pos` is not passed as a parameter**.

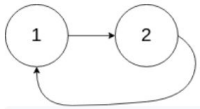
Return `true` *if there is a cycle in the linked list*. Otherwise, return `false`.

Example 1:




```
Input: head = [3,2,0,-4], pos = 1
Output: true
Explanation: There is a cycle in the linked list, where the tail connects to the 1st node (0-indexed).
```

Example 2:




```
Input: head = [1,2], pos = 0
Output: true
Explanation: There is a cycle in the linked list, where the tail connects to the 0th node.
```

Example 3:


```
Input: head = [1], pos = -1
Output: false
Explanation: There is no cycle in the linked list.
```

Constraints:

- The number of the nodes in the list is in the range `[0, 10^4]`.
- `-10^5 <= Node.val <= 10^5`
- `pos` is `-1` or a **valid index** in the linked-list.

Follow up: Can you solve it using `O(1)` (i.e. constant) memory?

70. Climbing Stairs

Easy 8957 266 Add to List Share

You are climbing a staircase. It takes `n` steps to reach the top.

Each time you can either climb `1` or `2` steps. In how many distinct ways can you climb to the top?

Example 1:

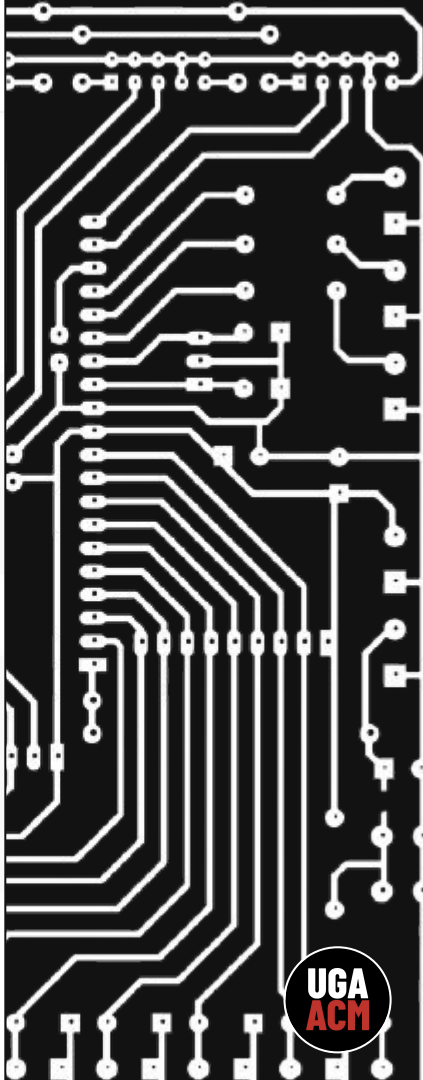
```
Input: n = 2
Output: 2
Explanation: There are two ways to climb to the top.
1. 1 step + 1 step
2. 2 steps
```

Example 2:

```
Input: n = 3
Output: 3
Explanation: There are three ways to climb to the top.
1. 1 step + 1 step + 1 step
2. 1 step + 2 steps
3. 2 steps + 1 step
```

Constraints:

- `1 <= n <= 45`



Conclusion

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→ Find us on:

- CS GroupMe
- GitHub
- LinkedIn
- Instagram
- Discord
- Calendar

→ Consider becoming a member!

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