

CIS TA / Tutor Survey – Analysis

June 2017

This academic year the CIS department has two hired tutors and around 60 volunteer TAs. When students become TAs they begin by assisting an instructor in class for one quarter. They learn what needs to be done and how, by collaborating with the instructor who teaches that class. The next quarter(s) the TA could choose to continue to be an in-class TA or to assist students in the open lab, or both. It is useful for both instructors and TAs to have some guidelines and resources specific for CIS tutoring. This is why I decided to work on this project during my sabbatical.

After consulting with Mary Pape, the coordinator of the CIS Tutor/TA program, Diana Alves de Lima, Co-Director, Student Success Center, and Paul Edwards, the founder of our Computer Science Volunteer program, I've created two online surveys for our former and current tutors / TAs. I've emailed 38 invitations to former tutors and 43 invitations to current TAs. Out of 38 former tutors, 21 completed the first part of the survey, and 18 completed the second part of the survey. Out of 43 current TAs, 25 completed the first part, and 15 completed the second part. Most of them agreed that their knowledge of the subject improved as a result of tutoring other students, that their most important responsibility as a tutor was leading the student to independence of learning, they shared the websites they found useful, such as www.cplusplus.com, www.learncpp.com, and gave suggestions for improving different aspects of the program. Having clear guidelines for tutoring is important for both tutors and instructors. Access to a small collection of examples and exercises to assist students in introductory or intermediate programming classes could be useful for new TAs.

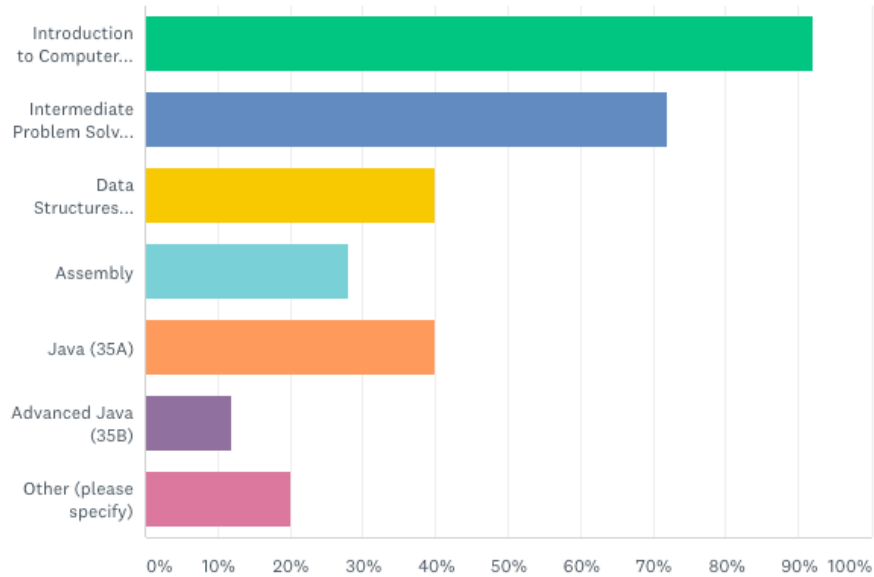
TA (25 students)	Former TA (Tutors) (21 students)
<p>Q1 How many hours per week (on average) have you tutored this quarter?</p> <p>2h – 12% 3h – 16% 4h – 16% 5h – 12% 6 to 7h – 16% 8 to 9h – 12%</p>	
<p>Q2 How many quarters have you tutored?</p> <p>1quarter – 44% 2quarters – 28% 3quarters – 8% more than 3 quarters – 20%</p>	<p>Q1 How many quarters (approximately) have you tutored at De Anza College? What year(s)?</p> <p>1quarter – 0.0% 2quarters – 4.76% 3quarters – 23.80% 4quarters – 19.04% more than 4 quarters – 47.61%</p>

<p>Q3 What subject[s]/course[s] have you tutored? (Check the box of any that apply.)</p> <p>22A – 92% 22B – 72% 22C – 40% Assembly – 28% 35A – 40% 35B – 12% Other – 20%</p>	<p>Q2 What subject[s]/course[s] have you tutored? (Check the box of any that apply.)</p> <p>22A/15AG – 71.43% 22B/15BG – 61.90%, 22C/15C – 85.71%, Assembly – 23.81%, 35A – 52.38%, 35B – 19.05%, Other – 47.62%</p>
<p>Q4 What is your most important responsibility as a tutor? (Check the box of your answer.)</p> <p>Listening – 20%, Helping – 16%, Leading – 40%, Making sure – 0%, Other – 24%</p>	<p>Q3 What is your most important responsibility as a tutor? (Check the box of your answer.)</p> <p>Listening – 9.52%, Helping – 4.76%, Leading – 61.90%, Making sure – 0%, Other – 23.81%</p>
<p>Q5 My own knowledge of the subject improved as a result of tutoring other students.</p> <p>Strongly Agree – 64%, Agree – 16%, Neutral – 16%, Disagree – 4%, Strongly Disagree – 0%</p>	<p>Q4 My own knowledge of the subject improved as a result of tutoring other students.</p> <p>Strongly Agree – 71.43%, Agree – 28.57%, Neutral – 0%, Disagree – 0%, Strongly Disagree – 0%</p>
<p>Q6 I improved my ability to teach or guide the learning of others as a result of tutoring.</p> <p>Strongly Agree – 56%, Agree – 36%, Neutral – 8%, Disagree – 0%, Strongly Disagree – 0%</p>	<p>Q5 I improved my ability to teach or guide the learning of others as a result of tutoring.</p> <p>Strongly Agree – 90.48%, Agree – 9.52%, Neutral – 0%, Disagree – 0%, Strongly Disagree – 0%</p>
<p>Q7 Did you find any of the following links useful?</p> <p>https://stackoverflow.com - 79.17% http://www.cplusplus.com - 75.00% http://www.learncpp.com - 20.83% https://www.sololearn.com/Courses/ - 0% Other (please specify) – 20%</p>	<p>Q6 Did you find any of the following links useful?</p> <p>https://stackoverflow.com - 90% http://www.cplusplus.com - 60% http://www.learncpp.com - 35% https://www.sololearn.com/Courses/ - 5% Other (please specify) – 30%</p>

CIS TA Survey Analysis – Q3

What subject[s]/course[s] have you tutored? (Check the box of any that apply.)

Answered: 25 Skipped: 0

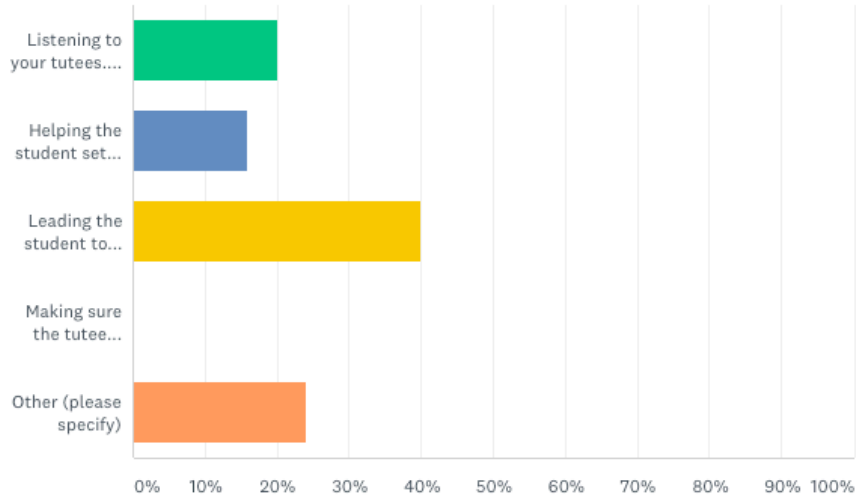


ANSWER CHOICES	RESPONSES
▼ Introduction to Computer Programming (22A)	92.00% 23
▼ Intermediate Problem Solving in C++ (22B)	72.00% 18
▼ Data Structures (22C)	40.00% 10
▼ Assembly	28.00% 7
▼ Java (35A)	40.00% 10
▼ Advanced Java (35B)	12.00% 3
▼ Other (please specify)	Responses 20.00% 5

CIS TA Survey Analysis – Q4

What is your most important responsibility as a tutor? (Check the box of your answer.)

Answered: 25 Skipped: 0

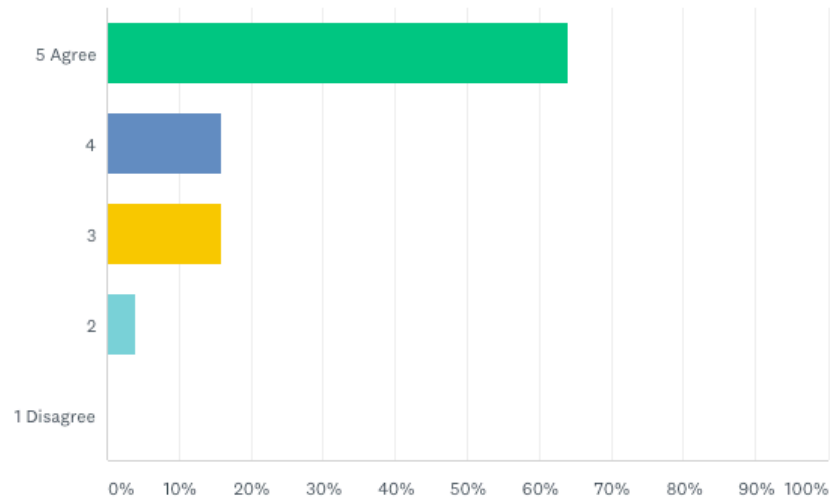


ANSWER CHOICES	RESPONSES
▼ Listening to your tutees. Letting them think and speak!	20.00% 5
▼ Helping the student set goals and recognize accomplishments.	16.00% 4
▼ Leading the student to independence in learning.	40.00% 10
▼ Making sure the tutee understands the purpose of tutoring and all policies pertaining to rights and rules for receiving tutoring.	0.00% 0
▼ Other (please specify)	Responses 24.00% 6

CIS TA Survey Analysis – Q5

My own knowledge of the subject improved as a result of tutoring other students.

Answered: 25 Skipped: 0

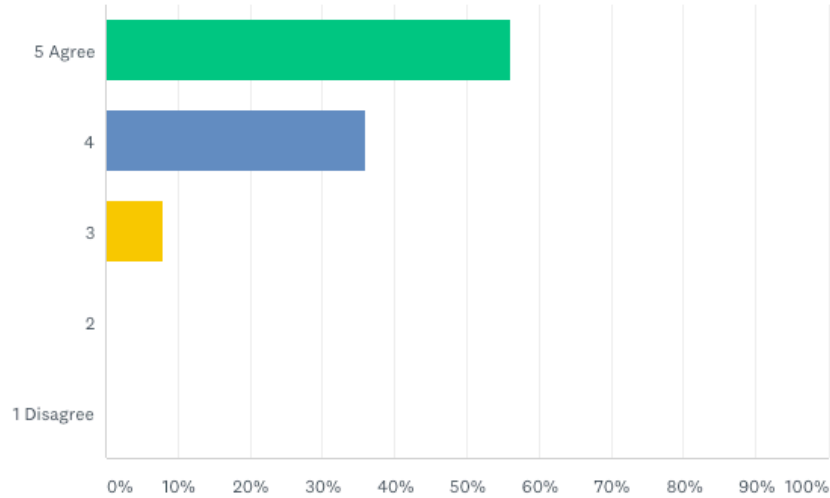


ANSWER CHOICES	RESPONSES
▼ 5 Agree	64.00% 16
▼ 4	16.00% 4
▼ 3	16.00% 4
▼ 2	4.00% 1
▼ 1 Disagree	0.00% 0

CIS TA Survey Analysis – Q6

I improved my ability to teach or guide the learning of others as a result of tutoring.

Answered: 25 Skipped: 0

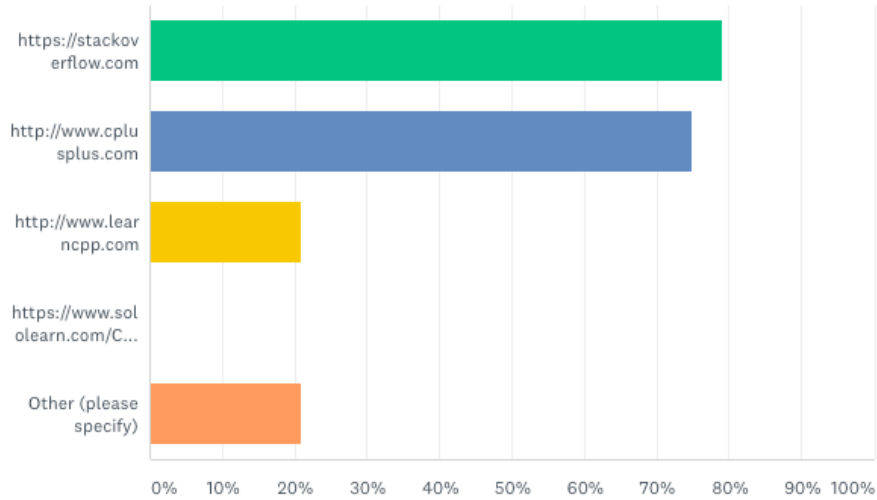


ANSWER CHOICES	RESPONSES
▼ 5 Agree	56.00% 14
▼ 4	36.00% 9
▼ 3	8.00% 2
▼ 2	0.00% 0
▼ 1 Disagree	0.00% 0

CIS TA Survey Analysis – Q7

Did you find any of the following links useful?

Answered: 24 Skipped: 1

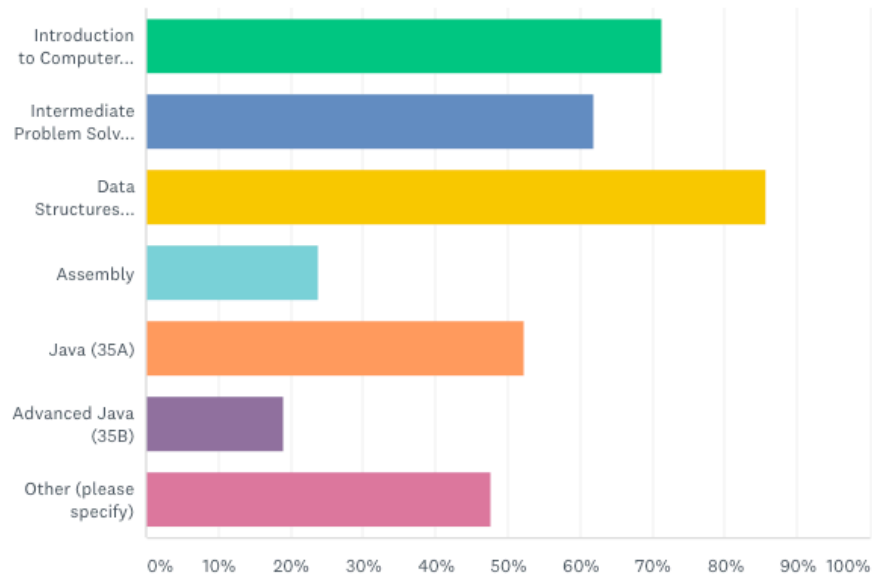


ANSWER CHOICES	RESPONSES
▼ https://stackoverflow.com	79.17% 19
▼ http://www.cplusplus.com	75.00% 18
▼ http://www.learncpp.com	20.83% 5
▼ https://www.sololearn.com/Courses/	0.00% 0
▼ Other (please specify) Responses	20.83% 5

CIS Former Tutor Survey Analysis – Q2

What subject[s]/course[s] have you tutored? (Check the box of any that apply.)

Answered: 21 Skipped: 0

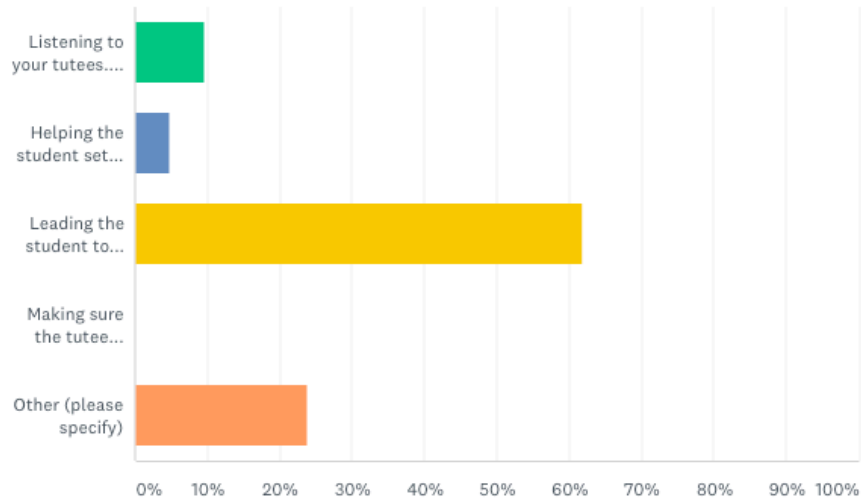


ANSWER CHOICES	RESPONSES
▼ Introduction to Computer Programming (22A)	71.43% 15
▼ Intermediate Problem Solving in C++ (22B)	61.90% 13
▼ Data Structures (22C)	85.71% 18
▼ Assembly	23.81% 5
▼ Java (35A)	52.38% 11
▼ Advanced Java (35B)	19.05% 4
▼ Other (please specify)	Responses 47.62% 10

CIS Former Tutor Survey Analysis – Q3

What is your most important responsibility as a tutor? (Check the box of your answer.)

Answered: 21 Skipped: 0

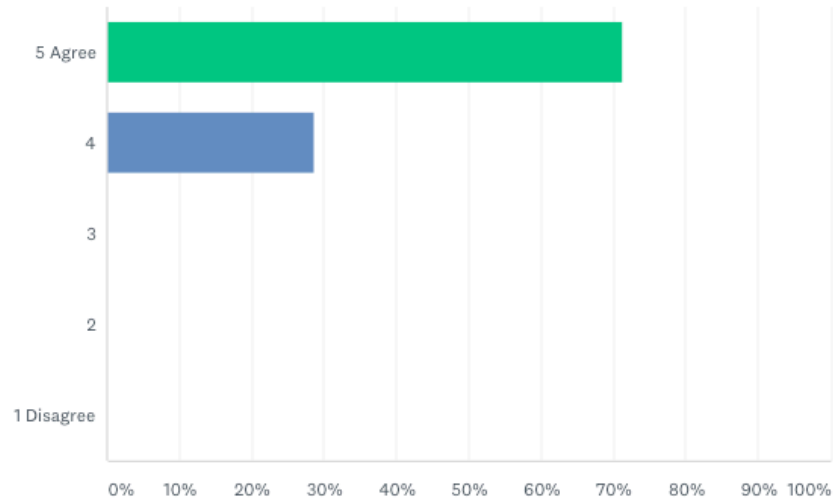


ANSWER CHOICES	RESPONSES
▼ Listening to your tutees. Letting them think and speak!	9.52% 2
▼ Helping the student set goals and recognize accomplishments.	4.76% 1
▼ Leading the student to independence in learning.	61.90% 13
▼ Making sure the tutee understands the purpose of tutoring and all policies pertaining to rights and rules for receiving tutoring.	0.00% 0
▼ Other (please specify)	Responses 23.81% 5

CIS Former Tutor Survey Analysis – Q4

My own knowledge of the subject improved as a result of tutoring other students.

Answered: 21 Skipped: 0

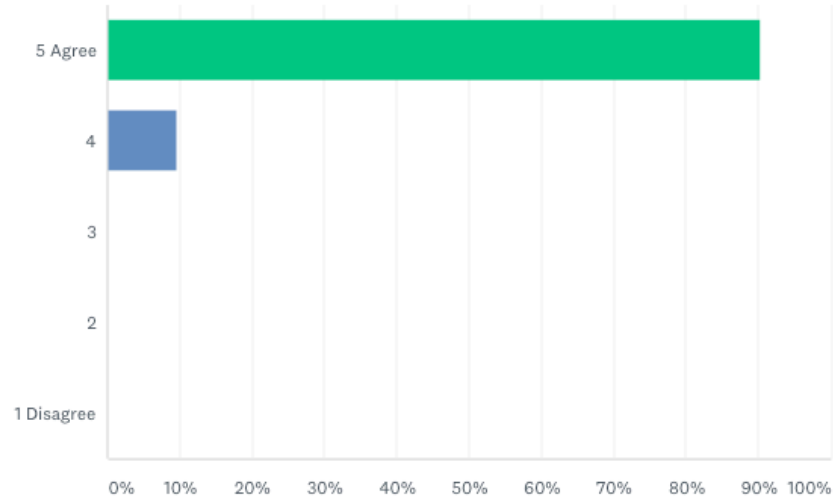


ANSWER CHOICES	RESPONSES
▼ 5 Agree	71.43% 15
▼ 4	28.57% 6
▼ 3	0.00% 0
▼ 2	0.00% 0
▼ 1 Disagree	0.00% 0

CIS Former Tutor Survey Analysis – Q5

I improved my ability to teach or guide the learning of others as a result of tutoring.

Answered: 21 Skipped: 0

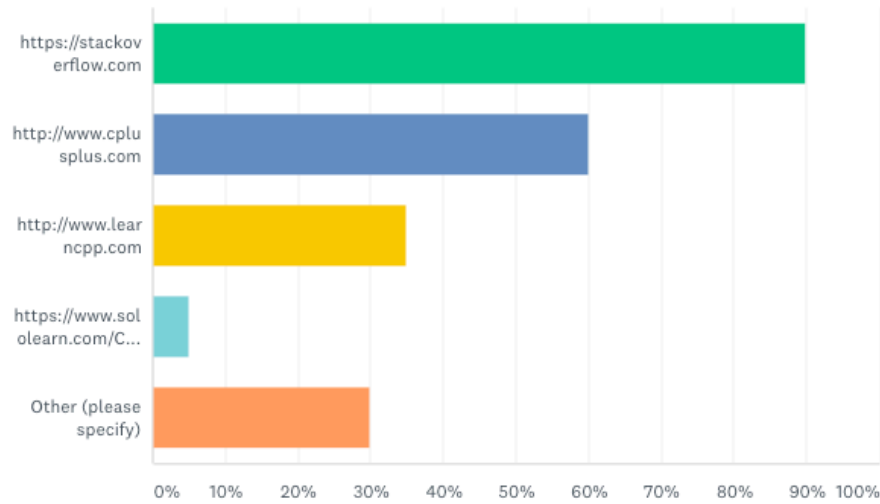


ANSWER CHOICES	RESPONSES
▼ 5 Agree	90.48% 19
▼ 4	9.52% 2
▼ 3	0.00% 0
▼ 2	0.00% 0
▼ 1 Disagree	0.00% 0

CIS Former Tutor Survey Analysis – Q6

Did you find any of the following links useful?

Answered: 20 Skipped: 1



ANSWER CHOICES	RESPONSES
▼ https://stackoverflow.com	90.00% 18
▼ http://www.cplusplus.com	60.00% 12
▼ http://www.learncpp.com	35.00% 7
▼ https://www.sololearn.com/Courses/	5.00% 1
▼ Other (please specify) Responses	30.00% 6