

Welcome
Mr. Matthews
and
Dr. Vandenberg

SEG

Preliminary Design

December 8, 2004

SEG

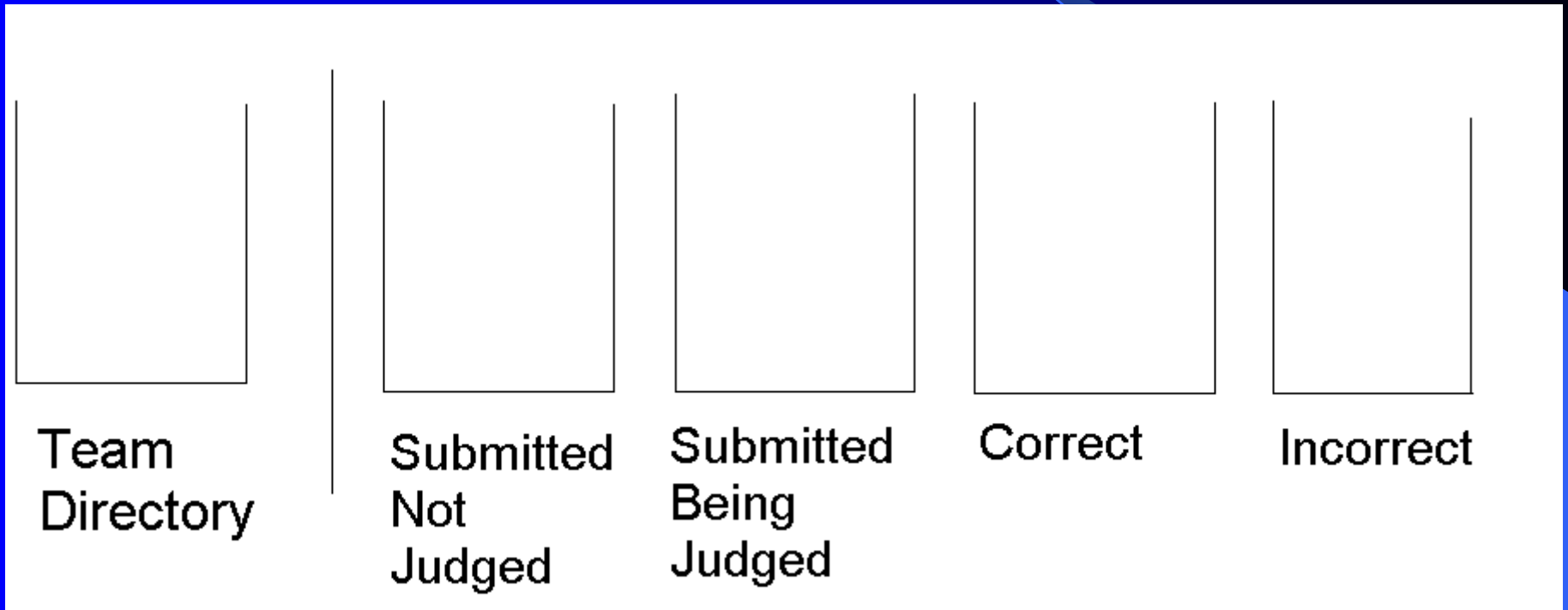
Preliminary Design Presentation Programming Contest Scoreboard and Submission

Paul Califano – Introduction and Conclusion

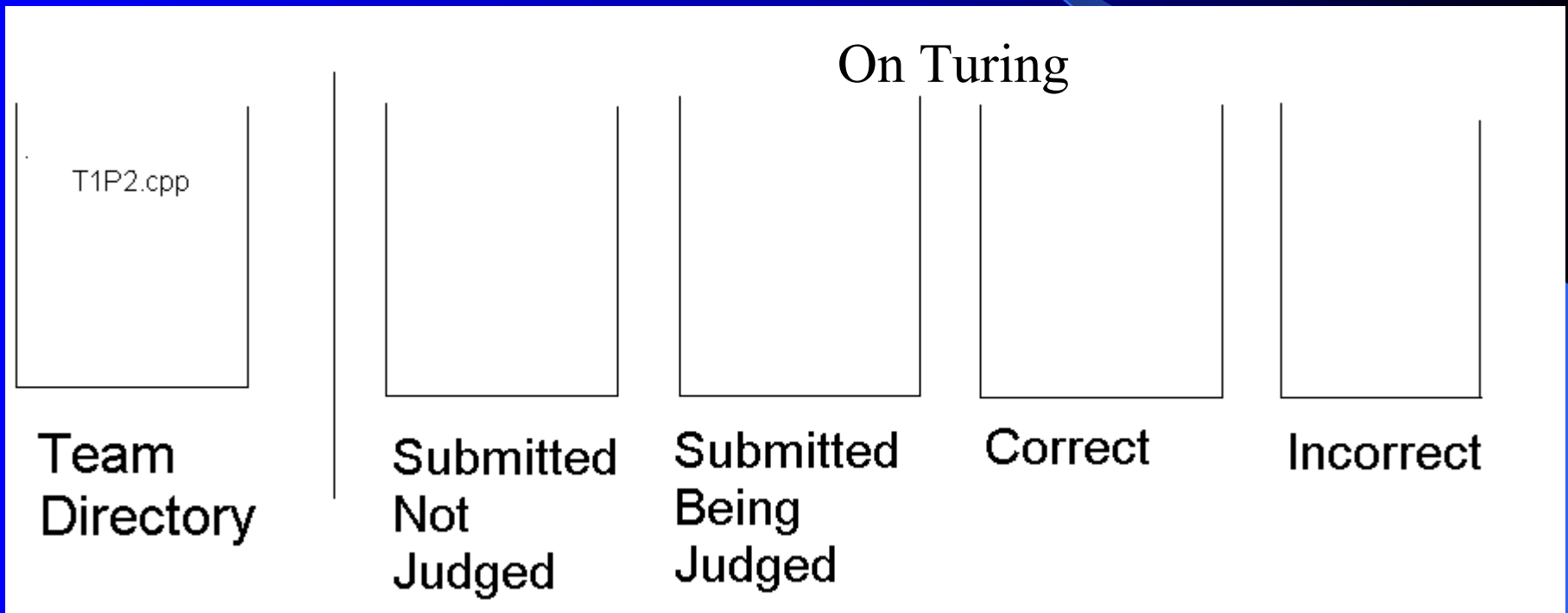
George Reese – Prototypes and Data Stores

Mark St. Hilaire – GUI Testing

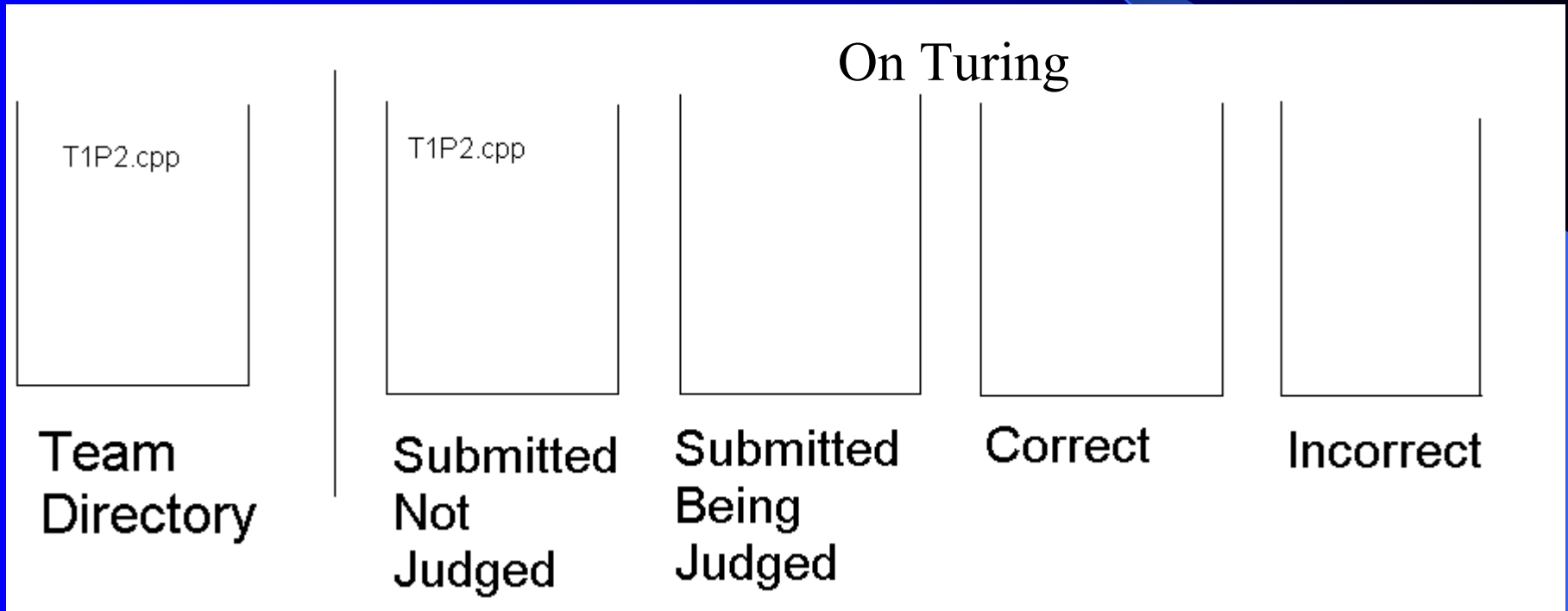
Data Stores for Solution Submissions



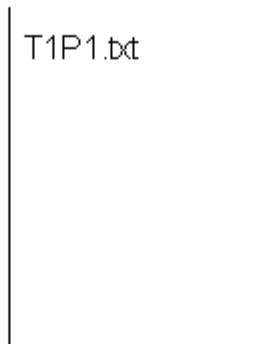
Actions in Data Stores



Actions in Data Stores (Submit)



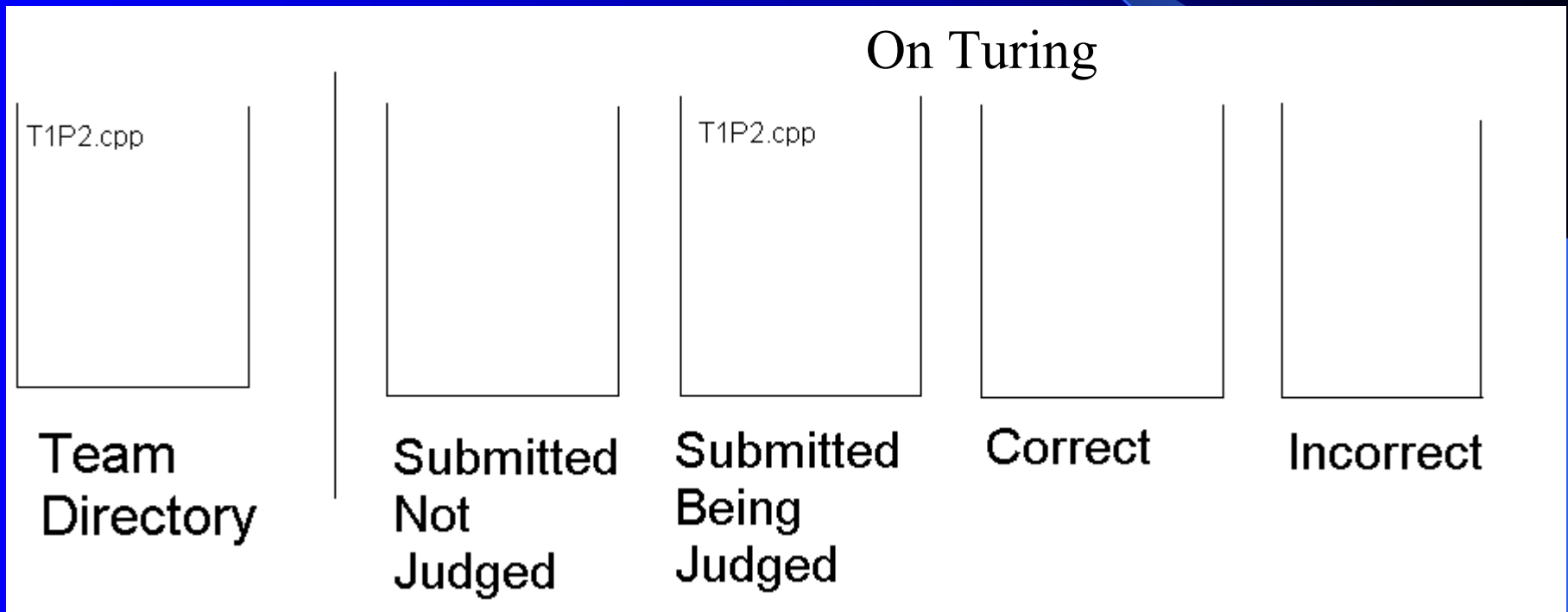
When a team submits a Question to Judges



Questions
Submitted

On Turing

Actions in Data Stores (Selected by Judge)



Actions in Data Stores (Correct)

On Turing

T1P2.cpp

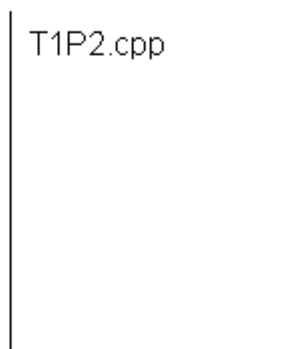
Team
Directory



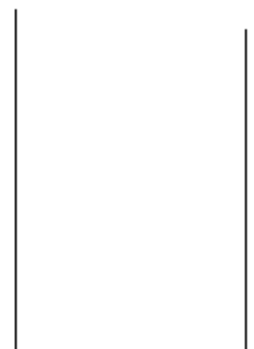
Submitted
Not
Judged



Submitted
Being
Judged

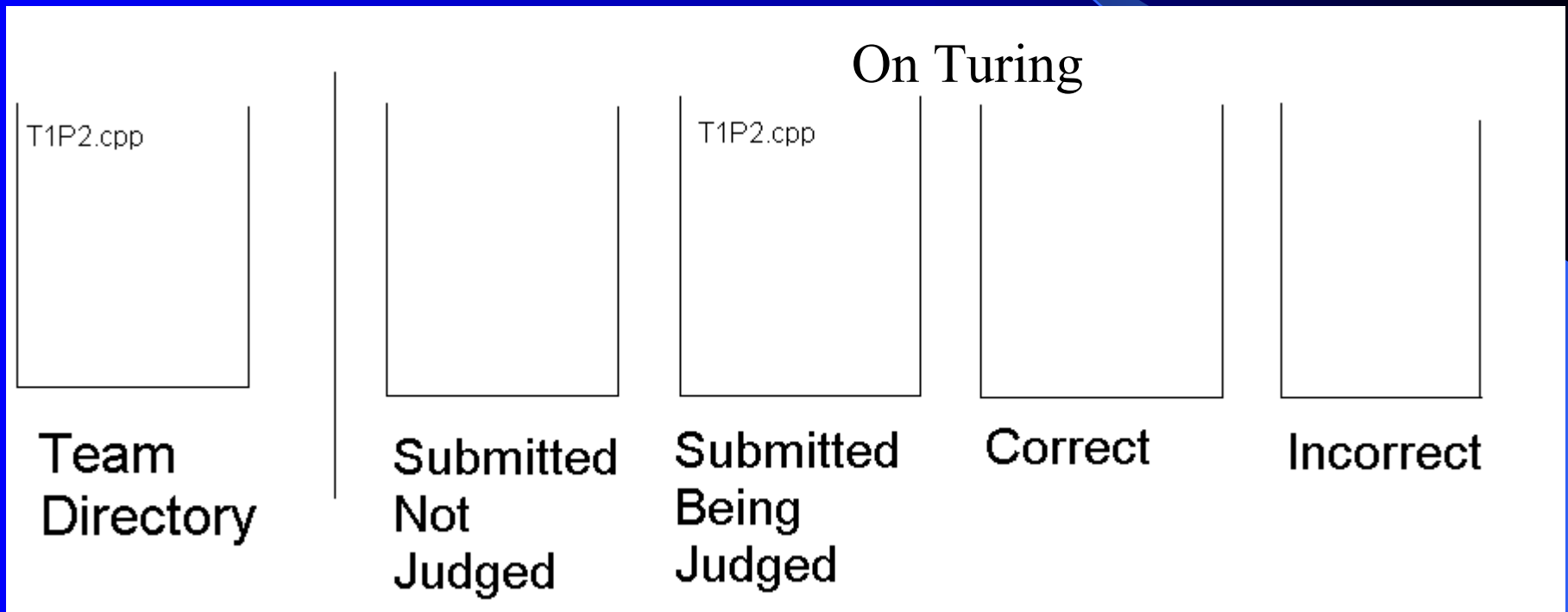


Correct



Incorrect

Actions in Data Stores (Selected by Judge)

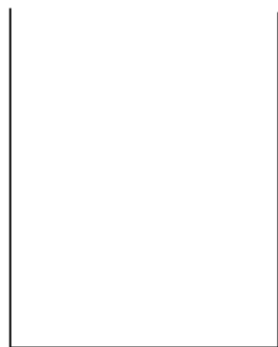


Actions in Data Stores (Incorrect)

On Turing

T1P2.cpp

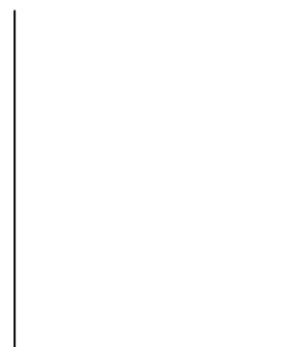
Team
Directory



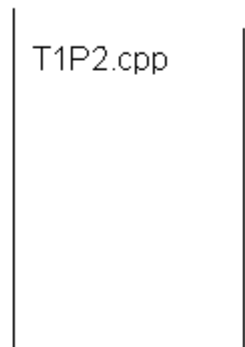
Submitted
Not
Judged



Submitted
Being
Judged



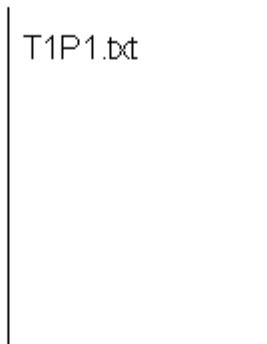
Correct



T1P2.cpp

Incorrect

When a team submits a Question to Judges

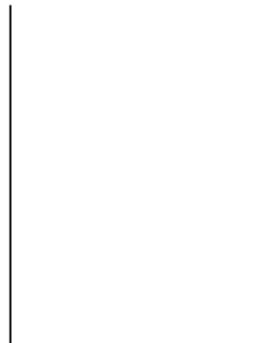


T1P1.txt

On Turing

Questions
Submitted

When a Judge Selects a question to answer



Questions
Submitted

On Turing

Contest Home Page and Previous Problems Page

- The Contest Page has links to the Scoreboard, links to Mr. Matthews and Dr. Vandenberg's email, as well as their email accounts in text.
- The Previous Problems has links to files with problems from other contests. (Prototype currently says to be done with PDF, but it will be done with text).

Scoreboard Array

	A	B	C	D	E	F	G	H	I	J	K	
1						Problems						
2			1	2	3	4	5	6	7	Correct	Time	
3		1										
4	T	2										
5	E	3										
6	A	4										
7	M	5										
8	S	6										
9		7										
10		8										
11		9										
12		10										

Scoreboard Array with Information

	A	B	C	D	E	F	G	H	I	J	K
1						Problems					
2			1	2	3	4	5	6	7	Correct	Time
3		Albany									
4	T	Bethlehem	9:30		10:00					2	1:30
5	E	Brunswick									
6	A	Guilderland			9:20					1	0:20
7	M	Mechanicville									
8	S	Niskayuna									
9		Schenectady									
10		Shaker		9:30	10:15					2	1:45
11		Troy									
12											

Scoreboard Array When Information Changes

	A	B	C	D	E	F	G	H	I	J	K	
1						Problems						
2			1	2	3	4	5	6	7	Correct	Time	
3		Albany										
4	T	Bethlehem	9:30		10:00					2	1:30	
5	E	Brunswick										
6	A	Guilderland	10:00		9:20					2	1:20	
7	M	Mechanicville										
8	S	Niskayuna										
9		Schenectady										
10		Shaker		9:30	10:15					2	1:45	
11		Troy										
12												

GUI Testing

Teams

Judges

Contest Website

Scoreboard

Team Websites

- Status bar displays correct status based on what directory the files are located.
- Only one radio button can be selected.
- When a team selects to submit a solution, a new section is displayed
- When a team submits a solution, only one language can be selected.
- Submit button submits specified solution as well as refreshing back to the team home page.
- A team can choose to view one of seven message boards of clarifications, one for each problem.

Team Websites (cont.)

- When a team selects to ask a question to judges, a new section is displayed.
- A team can enter a question in the text box, and submit it to the judges. When a team hits submit, it refreshes back to the team home page.
- A team can view the scoreboard in a new web browser when they click the scoreboard button.
- A team can view the scoreboard, in a new web browser when clicking the scoreboard button.

GUI Testing

Teams

Judges

Contest Website

Scoreboard

Judges Websites

- Queues on web site have items viewable.
- When a judge selects to judge a solution, a new section is displayed with text boxes showing the team number and problem number.
- A judge can only select one response to the teams and when the response is sent, the web page is refreshed to the Judge home page.

Judges Websites (cont)

- When a judge selects to answer a question, a new section is displayed.
- When a judge enters an answer, he/she may choose to submit it to just the team, or to a message board to be viewed by each team. When the answer is submitted, their browser is refreshed to their home page.
- Judges can view the Scoreboard, in a new web browser, but clicking the “Scoreboard” button.

GUI Testing

Teams

Judges

Contest Website

Scoreboard

Contest Website

- Links between pages are functional.
- Links to emails for Mr. Matthews and Dr. Vandenberg opens up Microsoft Outlook.
- Make sure the links to the problems opens up an HTML text file.
- Make sure a user can get to the scoreboard, in a new browser, using the “Scoreboard” link.

GUI Testing

Teams

Judges

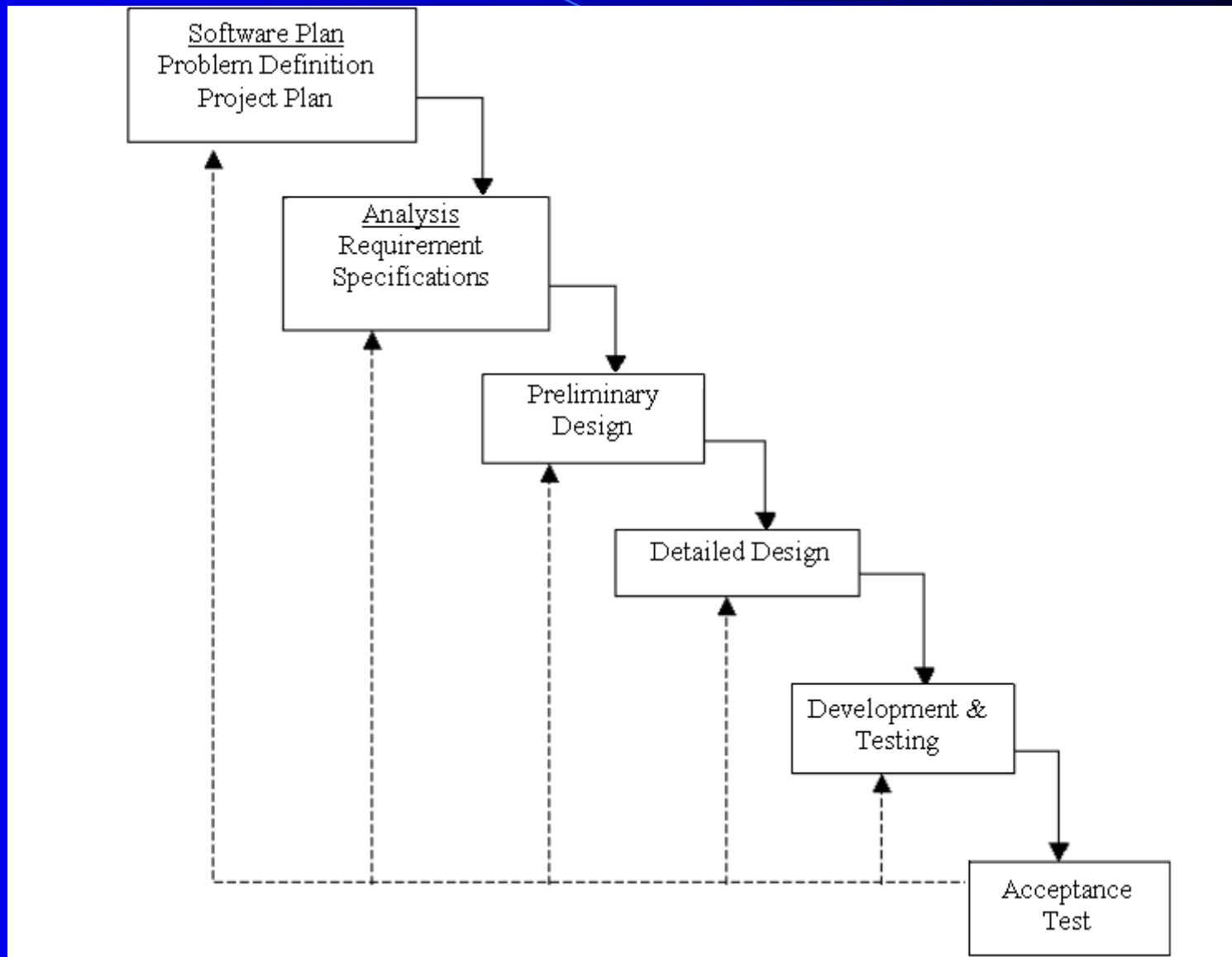
Contest Website

Scoreboard

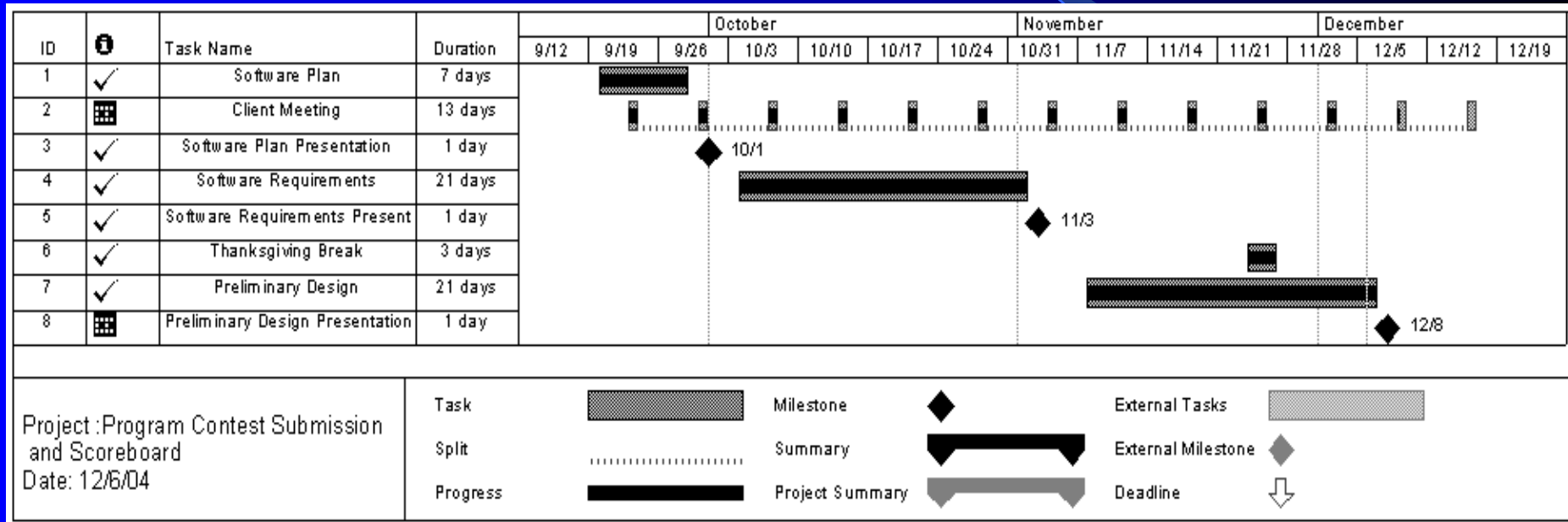
Scoreboard

- Make sure the Scoreboard is viewable.
- The information in the matrix is presented correctly.
- Scoring is calculated correctly.
- When the page updates, it repositions the teams on the scoreboard.

Linear Sequential Model



Gantt Chart



Next Semester

- Detailed Design – March 1, 2005
- Acceptance Test – April 21, 2005

Thank You!

Any Questions?