

FICHTE

Fake Intercollegiate Championship Tournament Experiment

2007-2008 Fake ICT
Packet 17

Tossups

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- The Kleene-Rosser paradox can be avoided by noting that this property of lambda calculus is central to computability. The Ackerman function is an example of a function that has this property, but not its primitive(*) variety.** The function that defines the Fibonacci numbers and the factorial function also have this property, and it is made use of in such algorithms as Quicksort, in which the sorting function calls itself. For 10 points— identify this self-referentiality in math and programming where functions are defined in terms of themselves.

answer: recursivity (accept any word forms, e.g. "recursion")
- Opposition movements in this country include Erk, Birlik and an Islamist group led by the late Juma Namangoniy. In May 2005, hundreds of civilian protestors were shot in this country's (*) Andijan massacre, which was followed by the expulsion of Americans from the Khanabad military base.** For 10 points— name this Central Asian country which is a major producer of cotton and is ruled by Islam Karimov.

answer: Uzbekistan
- This group advocated *baihua* literature over the classical *wenyan* style and burned down the house of the communications minister over the proposed occupation of Shantung. This group grew out of the journal *New Youth* and the New Culture Movement led by (*) Chen Duxiu and Hu Shih. Its center was colleges in Beijing, whose protest of the Versailles Treaty gave this group its name.** For 10 points— identify this nationalist modernizing society of Republican China, named for a date.

answer: May Fourth Movement
- At one point in this story, Mrs. Harvey observes that Roberta Dillon is thin enough to go to Arizona, and the title character, who greets people with "hello, shell shock!", has her behavior attributed to "crazy Indian blood." It ends with a pair of (*) braids dropped onto Warren's porch after the main character surreptitiously clips them from Marjorie's head.** For 10 points— name this F. Scott Fitzgerald story which turns on an earlier haircut.

answer: "Bernice Bobs her Hair"

5. **It ignores the Allee effect, and oscillatory and opportunistic behaviors both violate this model governed by the (*) Verhulst-Pearl equation.** The rate of change is equal to population size times the difference between birth and death rates times the fraction of carrying capacity still available for growth. For 10 points— name this model of population growth in which population size is sigmoidal with respect to time.

answer: logistic population growth model

6. **This author of *Devil's Yard* wrote a novel in which the French consul to Travnik creates an epic poem about Alexander the Great, and another about a character who learns from (*) Rafo Konforti how to succeed in business.** In another novel, a shopkeeper's ear is nailed to a structure built by Abidga in Visegrad. For 10 points— name this author of *The Woman from Sarajevo* and *Bridge on the Drina*.

answer: Ivo Andric

7. **The surrender of this man led another king to keep lands up to the Mulucha river. He attempted to kill Hiempsal and Adherbal to take power after the death of (*) Micipsa.** This man's father-in-law, the king of Mauritania Bocchus, eventually turned him over after Quintus Metellus had failed to get revenge for this man's massacre at Cirta. For 10 points— name this king of Numidia pursued by Sulla and Marius in a war of the 100s BCE.

answer: Jugurtha

8. **The article which outlined this experiment included a story about supermarket manager Ben Arkadian's anger over defective bottlecaps. The efficiency of transport from Nebraska to Sharon, Massachussets was measured in this study, whose first success was a Cambridge divinity student (*) receiving a folder that started with a Kansas wheat farmer.** For 10 points— name this Stanley Milgram experiment about interpersonal connections.

answer: small world study/experiment or six degrees of separation study/experiment (accept equivalents to either)

9. **One piano suite by this man includes such movements as "Beside a Spring," "Obemrann's Valley," and three sections titled for different Petrarch sonnets. This composer of the oratorio *The (*) Legend of St. Elizabeth* wrote a series of works that include one dedicated to Leo Festetics, one based on Ábrányi's "Csárdás nobles," and the Rákóczy March.** For 10 points— name this composer of the *Faust* symphony and the *Hungarian Rhapsodies*.

answer: Franz Liszt

10. **One Congressman from this state was the House Judiciary Committee chair until 2007. Tom Michels and Robert Lorge are the two most recent Republicans to lose Senate elections in this state, whose current Senators include (*) Herb Kohl and a man who voted against the Patriot Act and co-sponsored a campaign finance reform bill with John McCain, Russ Feingold.** For 10 points— name this upper Midwest state.

answer: Wisconsin

11. **It was partially obtained by linearizing a similar equation in derivatives with respect to time. It mistakenly predicts that g-factor to be exactly 2(*), and is similar to the Rarita-Schwinger equation.** Like the Klein-Gordon equation, it is relativistic, and its four solutions predict the existence of antiparticles and spin. For 10 points— identify this equation which describes the relativistic dynamics of spin $\frac{1}{2}$

particles.

answer: Dirac equation

12. **One of his novels discusses the sale of jewelry to buy a horse named Cockbird for George Sherston, who appears in both his *Memoirs of a Fox-Hunting Man* and *Memoirs of an Infantry Officer*. A poem by this man noted that "the jolly old rain" came after a group "blind with smoke" (*) "gained our first objective." For 10 points— name this poet of "Counter-Attack," a World War I writer who mentored Wilfred Owen.**

answer: Siegfried Sassoon

13. **One leader of this organization was a Quaker who later resigned from the Gladstone government to protest the war with Egypt. Another important figure in this group went on a world tour and wrote the book *England, Ireland, and America*. Financed by Samuel Courtauld, this group's leader made a speech which caused (*) Robert Peel to flee the Parliamentary chamber during a debate on the Irish famine. For 10 points— John Bright and Richard Cobden led what group which sought to end import duties on grain?**

answer: the Anti-Corn Law League

14. **In one work by this creator of *The Triumph of Caesar*, a fat black bird, a dark-skinned man with a headdress, and a bunch of flying infants look down through a painted oculus in the ceiling of Camera degla Sposli, found in the (*) Mantuan Ducal Palace. This painter of *Agony in the Garden* also showed a woman sticking a handkerchief in her left eye on the side of a notably foreshortened corpse. For 10 points— name this painter of *Dead Christ*.**

answer: Andrea Mantegna

15. **Sometimes called the "lord of red steeds," this consort of Svaha is responsible for digesting food and holding up heaven with a column. This god has a chariot that is pulled by (*) parrots, and serves priestly functions within the pantheon. Eight books of the Rig Veda open with prayers to this god, who is depicted with seven tongues and two faces, covered in ghee. For 10 points— name this Vedic god of fire.**

answer: Agni

16. **Stuntish acts during this man's term included a walking tour of Sarajevo during the Yugoslavian war and inviting every Nobel laureate to a conference on world problems. He forced a runoff in the 1965 presidential election, and later this man dismissed hardliner (*) Pierre Mauroy and appointed the technocrat Laurent Fabius in an attempt to save the economy. His party's loss of control of parliament in the late 1980s led to his "cohabitation" with Jacques Chirac. For 10 points— name this Socialist President of France.**

answer: Francois Mitterrand

17. **One character in this novel ends up in bed with the protagonist because of a black Orbe bowl but eventually kills herself with sleeping pills. That character's affair with the main character's (*) father only annoyed his mother because of how noisy she was. The title pattern is seen in white on a pink background in the cloth carried by Chikako, a tea ceremony expert. For 10 points— name this novel focusing on Kikuji Mitani, written by Kawabata.**

answer: Thousand Cranes or Sembazuru

18. **As a single, its B-side was cover of the Ohio Players song "Skin Tight" on European releases and "Memphis Train Blues" in the U.S. First appearing on the 1988 album *Green*, this theme song to the show *Get A Life* was parodied by Weird Al with a song noting "the tab is (*) there to open the can." "Your head is there to move you around" according to, for 10 points— what R.E.M. song that tells you to do the title action "in the place where you live?"**

answer: "Stand"

19. **One portion of this work contrasts Socrates's view that one who does wrong does not know the right with a purported Christian distinction between knowing and doing. It claims that there is a religious obligation to be (*) optimistic, as to fret about oblivion is to deny the truth of Jesus's promises. For 10 points— name this Kierkegaard book about the fear of a meaningless life, which identifies despair as the title malady.**

answer: The Sickness Unto Death or Sygdommen til Døden: En christelig psykologisk Udvikling til Opbyggelse og Opvaekkelse. af Anti-Climacus

20. **In the Schuz-Zimm distribution, the parameter x measures the degree of this. A model of the product of this process having continuous curvature is known as the Porod-Kratky structure. In the living form (*) of this process, the transfer and termination steps are absent, but the chain-growth variety with an initiation, propagation, and termination step is most common. Assisted by Ziegler-Natta catalysts, for 10 points— identify this process, the assembly of a long chain of molecules from identical units.**

answer: polymerization

21. **Sharing its name with an Argentine member of Tierra del Fuego, this landmass is home to such neighborhoods as Tottenville, Arden Heights, and Woodrow. The Fresh Kills landfill may also be found in this place, which is equivalent to (*) Richmond County, separated from New Jersey by the Arthur Kill river, and across the Verazzano Narrows from Brroklyn. For 10 points— name this least populated borough of New York.**

answer: Staten Island

22. **In one of this man's writings, the fable of the Troglodytes is told by Usbek to Mirza. He identified virtue, honor, and fear as the motivating principles of different forms of government. He also said that climate determined politics, and this author of the (*) *Persian Letters* advocated the separation of powers in his major work. For 10 points— name this author *The Spirit of the Laws*.**

answer: Charles-Louis de Secondat, baron de La Brède et de Montesquieu

23. **At the end of this movie, Loach and Escobar try to arrest the main character, and Evelyn is fatally shot after revealing that she had been raped by her father Cross. A scheme to privatize a (*) dam and sell water to Los Angeles drives the plot, and John Huston and Faye Dunaway star alongside Jack Nicholson's character Jake Gittes, who is told to "forget it" at the end of this movie. For 10 points— name this 1974 Roman Polanski film.**

answer: Chinatown

24. **This man replaced Fernando Wood as the leader of his organization. He is shown as a a vulture overlooking skulls and bones labeled "law" and "treasury" in one notable portrait, and raising a club as he takes two children by the collar in another. Opposed by (*) newspaper publisher George Jones and governor Samuel Tilden, he escaped from prison and was captured in Cuba thanks to the efforts of Thomas Nast. For 10 points— name this infamous leader of Tammany Hall.**

answer: William "Boss" Tweed

25. **He battled for a starting job with Trent Dilfer in the year after Dilfer won a Super Bowl. This Boston College alum spent two years as a Brett Favre backup before landing a job where Deion Branch, (*) Nate Burleson, and Bobby Engram are his common targets. For 10 points— name this man who wants the ball because we're going to score, the quarterback for the Seattle Seahawks.**

answer: Matt Hasselbeck

26. **The Bjerkens mechanism was proposed to explain this phenomenon, which causes the rising branch of the Walker circulation (*) to shift eastward. An index monitoring this phenomenon and its partner is based on measurements of the sea level pressure anomaly at Tahiti and Darwin. The warm phase of the Southern Oscillation, for 10 points— identify this 12 to 18 month long warming of the central and easter Pacific Ocean.**

answer: El Nino

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Bonuses

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1. He won a battle at Panipat in 1398. For 10 points each—
- A. Name this man who conquered much of central Asia from his base at Samarkand.
answer: Timur or Tamerlane
- B. Tamerlane took over the khanate named for this second son of Genghis, which covered present-day Sinkiang as well as Transoxiana.
answer: Chagatai
- C. This man allied with Tamerlane, enabling him to overthrow Mamai in 1381 and resubjugate Russia for the Golden Horde.
answer: Toktamys
2. It traces the title phenomenon from the common man's distrust of educated Puritan preachers to the "cult of practicality." For 10 points each—
- A. Name this 1963 text about the demonization of liberal education and its use by demagogues.
answer: *Anti-Intellectualism in American Life*
- B. This author of *The Age of Reform* and *American Violence* wrote *Anti-Intellectualism in American Life*.
answer: Richard Hofstadter
- C. This Hofstadter book attacks the John Birch Society and conspiracy theorists who warn of the Masons and Illuminati in the light of the rise of Barry Goldwater.
answer: *The Paranoid Style in American Politics*
3. He promulgated the motto "Country, Religion, Monarchy." For 10 points each—
- A. Name this founder of the Patriotic Union who ended the war in Morocco during his 1923 to 1930 dictatorship in Spain.
answer: Miguel Primo De Rivera Y Orbaneja
- B. Miguel Primo De Rivera's son José Antonio founded this fascist group which was soon taken over by Franco.
answer: the Falange or Falangists
- C. Another prominent figure before the rise of Franco was this Socialist Workers Party leader who was prime minister in 1936 and 1936.
answer: Francisco Largo Cabellero
4. Its former prime minister, Ramush Haradinaj, was acquitted in a 2008 war crimes trial. For 10 points each—
- A. Name this former province of Serbia, which declared independence in February.
answer: Kosovo
- B. This man, who replaced Slobodan Milosevic as president of Yugoslavia in 2000, is currently the prime minister of Serbia and is unhappy with Kosovo's actions.
answer: Vojislav Kostunica
- C. This leader of the Democratic Party of Kosovo was once affiliated with the Kosovo Liberation Army and is now the prime minister of independent Kosovo.
answer: Hashim Thaçi

5. For 10 points each— name these states of India:
- A. The Aravali mountains divide this state, home to the Thar Desert, which is found to the north of Gujarat and Madhya Pradesh.
answer: Rajasthan
- B. Bordering only Karnataka and Tamil Nadu, this slim state is the most southwesterly on the Indian mainland.
answer: Kerala
- C. This roughly triangular state with a capital at Dispur near Guwahati is found centrally in the eastern Indian panhandle and borders Bhutan.
answer: Assam
6. The *Australopithecines* appeared during this period, which began after the mass extinction of non-avian dinosaurs. For 10 points each—
- A. Name this first period of the Cenozoic era.
answer: tertiary
- B. Whales evolved during this epoch of the tertiary period, which also saw the diversification of mammals like elephants and camels following the eocene epoch.
answer: oligocene
- C. *Australopithecines* arrived on the scene during this last epoch of the tertiary era.
answer: pliocene
7. He was installed by the Soviets after emerging as the leader of the anti-Dubcek faction in 1968. For 10 points each—
- A. Name this ruler of Czechoslovakia from that time until 1989.
answer: Gustav Husak
- B. This reform movement led by Dubcek caused the shuffling of power.
answer: Prague Spring
- C. Named for the year that it signed a certain document, this opposition human rights movement called for an end to Husak's rule.
answer: Charter 77
8. For 10 points each— name these figures involved in the creation of the modern periodic table:
- A. This Russian arranged the elements according to atomic weight in order to predict the properties of missing elements via his periodic law.
answer: Dmitri Mendeleyev
- B. This German author of *Modern Chemical Theory* worked independently of Mendeleyev and eventually produced a table organized by atomic number.
answer: Julius Lothar Meyer
- C. This man created the actinide series in order to add transuranic elements to the table, after discovering many of them.
answer: Glenn Seaborg
9. For 10 points— name these islands in Hawaii:
- A. Dominated by noted "wettest place on earth" Mount Waialeale, this home to Lihue also features the Wailua River and was the first place Captain Cook landed.
answer: Kauai
- B. Southeast across the Kauai Channel from Kauai, this island is home to Honolulu, Diamond Head, and Pearl Harbor.
answer: Oahu
- C. Grouped in a county with Maui, which is separated from it by the Auau Channel, this home to the Palawai Basin is the sixth-largest of the Hawaiian islands.
answer: Lanai

10. *The Woman at the Washington Zoo* and *Blood for a Stranger* are among the collections of this man's poetry. For 10 points each—
- A. Name this North Carolina author of "Burning the Letters" and *Little Friend, Little Friend*.
 answer: Randall Jarrell
- B. A man who was "loosed from the drama of life" "six miles from earth" is washed out "with a hose" in this Jarrell poem.
 answer: "The Death of the Ball Turret Gunner"
- C. This novel by Randall Jarrell is set at Benton College, where composer Gottfried Rosenbaum, writer Gertrude Johnson, and President Robbins are satirized.
 answer: *Pictures from an Institution*
11. For 10 points each—answer some questions about the chemistry of organometallic compounds:
- A. Perhaps the most famous organometallic compound is the Grignard reagent, which contains a halide of this element.
 answer: magnesium
- B. This catalyst consists of a powdered alloy of nickel and aluminum and is used for hydrogenation, desulphurization, and reduction of various functional groups.
 answer: Raney nickel catalyst
- C. Palladium is used to catalyze this reaction which forms a carbon-carbon single bond between aryl or vinyl halides and alkenes.
 answer: Heck reaction
12. For 10 points each— name these member of the Vienna Circle:
- A. This founder of the Institute for the Unity of Science was the most Marxist-leaning member of the Circle, and also wrote *Inventory of the Standard of Living*.
 answer: Otto Neurath
- B. The leader of the group, this author of *Philosophy of Nature* was assassinated on his way to teach a 1936 class by a Nazi who erroneously believed he was Jewish.
 answer: Moritz Schlick
- C. This food-averse, Dracula-haired formulator of an important "incompleteness theorem" was also associated with the group.
 answer: Kurt Gödel
13. This man was made immortal via a golden hair given to him by Poseidon. For 10 points each—
- A. Name this king of Taphos whose sons attempted to claim Mycenae from Electryon.
 answer: Pterelaus
- B. Electryon appointed this fiancée of Alcmene king, but he accidentally killed Electryon while trying to beat a cow, then was cuckolded by Zeus, leading to the birth of Heracles.
 answer: Amphitryon
- C. Amphitryon succeeded in taking Taphos when this daughter of Pterelaus fell in love with Amphitryon and removed Pterelaus's immortal hair.
 answer: Comaetho
14. For 10 points each— name these presidents of Harvard.
- A. This son of Richard and father of Cotton was an advocate of smallpox inoculation and wrote some works about detecting good and evil spirits.
 answer: Increase Mather
- B. This guy spoke before Lincoln at Gettysburg, was John Bell's Vice-Presidential candidate in 1860, and served in various political posts in Massachusetts.
 answer: Edward Everett
- C. Formerly the US High Commissioner in occupied Germany, this textbook author encouraged Thomas Kuhn to write *The Structure of Scientific Revolutions*.
 answer: James Bryant Conant

15. H.M. Grandcourt's death in a yachting accident leaves Gwendolyn Harleth a widow in this novel. For 10 points each—
- A. Name this novel in which Hugo Mallinger's protégé discovers that he is Jewish after saving a girl from drowning in the Thames.
 answer: Daniel Deronda
- B. This author of *The Mill on the Floss* and *Middlemarch* wrote *Daniel Deronda*.
 answer: George Eliot or Mary Ann Evans
- C. This sister of Mordecai and professional singer is saved by Daniel and later marries him.
 answer: Miriam/Mirah Lapidoth (either or both names)
16. It wraps around it center twice, then forms a causeway. For 10 points each—
- A. Name this environmental sculpture which was long submerged by the Great Salt Lake.
 answer: Spiral Jetty
- B. This creator of *Glue Pour* and *Partially Buried Woodshed* designed *Spiral Jetty*.
 answer: Robert Smithson
- C. Smithson died in a plane crash while finding locations for this work, a fifteen-foot wall of earth which was erected in a now-dry reservoir in North Texas.
 answer: Amarillo Ramp
17. For 10 points each— name these car races:
- A. A.J. Foyt, Al Unser, and Rick Mears are tied for the record at four wins each in this race held each May.
 answer: The Indianapolis 500
- B. Held in Spa, this race's defending champion is Kimi Räikkönen, and it is considered the most prestigious title on the Formula One circuit.
 answer: Belgian Grand Prix
- C. Pierre Levegh once killed himself and 82 fans at this race held at the Circuit de la Sarthe, which was won by a three-man team in an Audi in 2007.
 answer: 24 Hours of Le Mans
18. Eddi Amsel runs a factory that makes scarecrows in this novel. For 10 points each—
- A. Name this book, in which Harry's radio program assails the life of the ex-Nazi Walter Matern.
 answer: Dog Years or Hundejahre
- B. With *Cat and Mouse* and *The Tin Drum*, *Dog Years* forms the Danzig Trilogy of this author.
 answer: Gunter Grass
- C. The titular event of 1647 is moved from Osnabruck by Simon Dach in this play about a fictitious literary circle.
 answer: *The Meeting at Telgte* or *Das Treffen in Telgte*
19. For 10 points each— name these dancing-centered movies of recent years:
- A. Tre Armstrong plays Michelle, who must leave a private school when her sister dies in order to become a step dancer, in this 2008 Ian Rashid-directed film.
 answer: How She Move
- B. This 2008 sequel brought a new director and a mostly new cast but kept the setting of the Maryland School for Fine Arts.
 answer: Step Up 2: The Streets
- C. Diego Luna and Romola Garai star in this 1958-set movie, a long-awaited 2004 sequel to Emile Ardolino's 1987 film with Jennifer Grey.
 answer: *Dirty Dancing: Havana Nights*

20. The title character is the daughter of Oroveso and has a notable duet with Pollione. For 10 points each—
- A. Name this opera, in which a female druid falls in love with a Roman governor of Gaul, to tragic results.
 answer: Norma
- B. This creator of *Zaira*, *Beatrice di Tenda*, and *La Sonnambula* composed *Norma*.
 answer: Vincenzo Bellini
- C. This Bellini melodrama follows Arturo of Ravenstal's attempt to cheat on Isoletta with Alaide, who might be a witch, but is actually in line to be queen of France.
 answer: *La straniera* or *The Stranger*
21. For 10 points each— name these classical Indian authors:
- A. This man is traditionally credited with writing about Charudatta's service to King Aryaka in *The Little Clay Cart*.
 answer: Sudraka
- B. *The Dynasty of Raghu*, *The Cloud Messenger*, and *Shakuntala* are among the works of this playwright.
 answer: Kalidasa
- C. This son of Parashara and Satyawati is said to have dictated the *Mahabharata* to Ganesh.
 answer: Veda-Vyasa or Krishna Dvaipayana
22. The energy emitted by it is given by the Franck-Tamm formula. For 10 points each—
- A. Identify this effect in which a particle emits radiation when traveling through a medium faster than the speed of light in that medium.
 answer: Cherenkov radiation
- B. Cherenkov radiation is a key effect in such experiments as Super-Kamiokande and IceCube that detect these particles, which oscillate between their three varieties.
 answer: neutrinos
- C. This effect is a form of Cerenkov radiation which results when the phase velocity of a particle is altered by a periodic grating.
 answer: Smith-Purcell effect
23. For 10 points each— name these CW shows:
- A. The Winchester brothers try to find the ghost who killed their mother in this show starring Jensen Ackles and Jared Padalecki.
 answer: Supernatural
- B. Blair Waldorf and Serena van der Woodsen compete for the affections of Nate Archibald in this program about New York City private school life.
 answer: Gossip Girl
- C. Apparently not coming back post-writers' strike is this comedy about a Pakistani exchange student in Wisconsin.
 answer: Aliens in America
24. They comprise a white dwarf and a main sequence star, and their defining events occur when mass transfer to the dwarf causes an ignition. For 10 points each—
- A. Identify these variable stars, so called because their variability is the product of irregularly timed events.
 answer: cataclysmic variable
- B. If the white dwarf accretes too much mass from the secondary, it will approach the Chandrasekhar limit and initiate carbon fusion, resulting in one of these explosions.
 answer: Type Ia supernova (prompt on supernova)
- C. These non-cataclysmic variable are population II stars, which are older than Cepheids and have a mass about ½ that of the Sun. Their spectra sometimes exhibit the Blazhko effect.
 answer: RR Lyrae variables

25. Algernon Sidney and Robert Ferguson were some of the people implicated in this plan. For 10 points each—

A. Name this attempt to assassinate the king in 1683 at a namesake narrow road in the vicinity of Newmarket.

answer: Rye House Plot

B. The Rye House Plot targeted this husband of Catherine of Braganza due to his Catholic sympathies.

answer: Charles II

C. This law engineered by Ashley Cooper was to end Catholic rule by prohibiting James II from ascending to the throne on Charles's death, but the Lords vetoed it.

answer: Exclusion Bill

26. Noted makers of these devices include Altera and Xilinx. For 10 points each—

A. Identify this device which consists of easily programmable logic gates.

answer: Field Programmable Gate Array

B. The operations of FPGAs are typically defined by this type of language, examples of which include Verilog.

answer: Hardware Description Language

C. The logic blocks of an FPGA essentially consist of these units, which have two states that are switched between on the clock signal. They come in SR, D, and JK varieties.

answer: flip-flops