

# Don't Underestimate Our Set (DUOS) Packet 4

Head Editors: Sinecio Morales, Arya Singh

Edited by: Justin Abel, Alexander Crowell, Rohan Ganeshan, Kaushik Gollamudi, Rohan Kher, Sinecio Morales, Arya Singh, Shiva Tegulla, Charahc Young

Written by: Aatreya Bhattacharyya, Samuel Go, Vishnuu Gopi, James Healy, Zainab Memon, Shardul Parthasarathy, Anirudh Prasanna, Jason Wang, Allie Yang

1. **The scherzo of one symphony by this composer opens with pairs of gradually softer G-C timpani strokes; the first two movements of that symphony are separated by a prolonged five minute break. The trumpets introduce the “Accende” theme in another symphony by this composer, which includes the instruction “like a breath” in its finale. An alto sings “O red rose!” to open the fourth movement “Urlicht” of this composer’s second symphony. The “Chorus Mysticus” sings of the “Eternal feminine” in a setting of (\*) Goethe’s *Faust* in another symphony by this composer. That symphony by this composer opens with a loud E-flat major chord by the organ introducing the central theme, “Veni Creator Spiritus.”** For 10 points, name this Austrian Romantic composer whose symphonies include ones nicknamed “Resurrection” and “Of a Thousand.”

ANSWER: Gustav **Mahler** <Ganeshan - Auditory Fine Arts>

2. **A supporter of this cause moved to Addis Ababa and was given awards like the Third Class of the Order of Sheba by Haile Selassie. Marion Dunlop inspired supporters of this cause, which included an individual who was killed running into a horse race at the Epsom Derby. The Cat and Mouse Act was created to stop supporters of this cause, which was supported by the WSPU. This goal was finally achieved at the end of World War I with the (\*) Representation of the People Act of 1918. Emmeline Pankhurst supported this cause through acts of disobedience like hunger strikes.** For 10 points, name this cause that sought to expand voting rights in Britain beyond men.

ANSWER: **women’s suffrage** [accept answers describing **women**’s right to **vote** or any obvious equivalents] <Kher - European History>

3. **Breaking up these constructs via “fission” or “fusion” may increase locality of reference. A tradeoff between space and response time is required when optimizing these entities through “unrolling”. Incorrect accounting for boundary conditions when using these constructs to create sections may result in a common type of off-by-one result called a fencepost error. The keyword (\*) “continue” passes control between these constructs, and a time complexity of big O of n squared results when these constructs are nested. By definition, these constructs must predetermine a means for their termination to avoid running indefinitely.** For 10 points, name these control flow statements which repeatedly execute their code until a condition is met.

ANSWER: **loops** [accept while **loops** and nested **loops**] <Tegulla - Science>

4. **While in one of these places, a character learns about the three most popular patterns used by carpet painters in a letter from his wife. After obtaining some tobacco from two men, the protagonist of a novel set in one of these places hears criticisms of “Old Man Whiskers.” Cesar gives cigarette buds to the protagonist of a novel set in one of these places, who owes a spoon engraved with the words “Ust-Izhma” [“ooze-t ish-mah”] and sews bread rations to his mattress. In a novel set one of these places, a Latvian man named Kilgas and the protagonist cover windows at the (\*) Power Station. The protagonist of a novel set in one of these places has a meaningful discussion with the Baptist Alyoshka [“ahl-ee-oh-shka”] and along with many others, is part of Tyurin’s [“tee-oo-rin”] Gang of 104. The novel *One Day in the Life of Ivan Denisovich* by Alexander Solzhenyitsyn [“soul-zhen-eet-sin”] depicts life in, for 10 points, what Soviet labor camps?**

ANSWER: **gulags** <Ganeshan - European Literature>

5. *Note to moderator: emphasize “NINO.”* **One episode of this man’s show follows Amy Bouzaglo and her husband Samy, who states that the “customer is never right.” In another episode of that same show, Mike sarcastically remarks to this man that his narcissistic manager goes around to people shouting “Hello... my name's NINO!” This man caricatured himself in one comedy sketch by placing two slices of bread around a woman’s head and yelling at her to call herself an (\*) “idiot sandwich.”** Along with running a series where he reviews poorly-rated hotels, this man hosts a game show in which the Red and Blue team chefs compete against each other at his restaurant in Las Vegas. For 10 points, name this perpetually angry British celebrity chef who hosts the shows *Kitchen Nightmares* and *Hell’s Kitchen*.

ANSWER: Gordon **Ramsay** <Memon - Pop Culture>

6. Charles Lee's military career ended because of a battle in this state that he was court-martialed for retreating from. The spy John Honeyman misinformed the loser of a battle in this state whose losing commander apocryphally ignored a warning note from a farmer because he was taking part in Christmas celebrations. By holding a cannon in one hand and giving soldiers water in the other, Molly Pitcher gained fame at this state's Battle of (\*) Monmouth. In this state, Johann Rall and over a thousand Hessians were defeated when George Washington led a nighttime crossing of the Delaware River. For 10 points, name this state, the site of the Battle of Trenton.

ANSWER: New Jersey <Kher - American History>

7. When time-dependent, this quantity appears in the denominator of a term in the differential Verhulst equation. One of these quantities is indicated by the point at which the recruitment rate approaches zero. Groups that are *contrasted* with r-strategists tend to fluctuate near these quantities. This quantity serves as the (\*) horizontal asymptote for a logistic growth model. In Malthusian theory, the point at which exponential growth meets linear agricultural production can be thought of as this quantity for humans. Factors that increase this quantity include food and water availability, and the growth rate of a species approaches zero near this quantity. For 10 points, name this quantity which represents the maximum population size that an environment can sustain.

ANSWER: carrying capacity [prompt on K] <Tegulla - Biology>

8. These beings were described as practicing "Machiavellian" tactics in a book titled [these beings'] *Politics* by Frans de Waal. The Kasakela community of these beings broke out into a civil war that lasted four years. One of these beings whose name was a play-on-words of "Noam Chomsky" was raised by two human parents as part of a failed investigation into the proof of these animals' language acquisition capability. One of these beings was observed using (\*) stalks of grass to hunt through a technique called "termite fishing." The Gardner sisters raised one of these animals named Washoe, who supposedly was the first of her kind to learn ASL. Frodo and Goliath were part of a group of these animals studied at Gombe Stream National Park in Tanzania. For 10 points, name these primates who were the main subject of Jane Goodall's research.

ANSWER: chimpanzees [prompt on monkeys and apes] <Tegulla - Social Science>

9. One character created by this author uses an alarm clock that dictates when a salt bath must be prepared for a gatekeeper at an amusement park. In another work by this author, a character imagines crippled men competing to fill a chamber pot before the song "Little Man You've Had a Busy Day" plays on a jukebox. One character in a play by this author is encouraged to apologize for hitting Hilda Sammuels and later discusses Charles Darwin's position as a "man of magnitude." In another play by this playwright, Ethel Lange is invited to Port Elizabeth by (\*) Morris and Zachariah, who partake in a game in which they discover that they secretly hate each other. Another play by this author that takes place in St. George's Park Tea Room features characters such as Sam, Willie, and Hally. For 10 points, identify this South African playwright of *Blood Knot* and *Master Harold...and the Boys*.

ANSWER: Athol Eugard <Gollamudi - World Literature>

10. A character in this film notes to the female lead that the "O." in his name does not stand for anything over a meal on a train. The protagonist of this film drunkenly descends down a winding road before the police arrest him after he is intoxicated at the residence of the ostensible UN diplomat Lester Townsend. In a scene from this film that served as the precedent for the James Bond series, one character arrives near a bus stop at the prospective meeting location with Eva Mary-Saint's character only to encounter the thugs of Phillip (\*) Vandamm, who attempt to gun down that Carey Grant-played protagonist from a crop duster. This film climaxes as Roger Thornhill, mistaken for the non-existent George Kaplan, leads a daring chase scene over the rocky terrain of Mount Rushmore. For 10 points, name this early spy thriller film, a work of Alfred Hitchcock.

ANSWER: North by Northwest <Crowell - Other Fine Arts>

11. **The compatibility of Born rigidity with one of this scientist's ideas is questioned in a thought experiment which concerns a rotating cylinder, called the Ehrenfest paradox. Certain phenomena described by this scientist modify quantities by a factor equal to the square root of one minus the ratio *beta* squared. This man's namesake tensor, as well as the stress-energy and metric tensors are related in his namesake (\*) field equations. Length contraction is predicted by one of this man's theories for objects moving at speeds close to the speed of light, while another of his theories posits that gravity creates curvatures in spacetime. The *Annus Mirabilis* papers of 1905 were published by, for 10 points, what physicist who formulated the theory of special relativity?**  
ANSWER: Albert Einstein <Tegulla - Physics>

12. **A thinker from this modern-day country deduced that "the whole is the untrue" in a section which opens with the statement, "life does not live." Another thinker from this country described the transition to a "Determinate Being" known as "sublation" in a work utilizing logical triads. Two authors from this country argued in one critiqued capitalism as a primary means of breeding passivity through a "culture industry"; that work is (\*) *The Dialectic of Enlightenment*. A thinker from this country described a "struggle to the death" in the "master-slave dialectic" passage of his *Phenomenology of Spirit*. For 10 points, name this home of Theodor Adorno, Max Horkheimer, George Friedrich Hegel, and members of the Frankfurt school.**  
ANSWER: Germany [or Deutschland] <Ganeshan - Philosophy>

13. **During this dynasty, Wei Zhongxian destroyed a group of scholars called the Donglin Academy Faction. In an oddly eccentric pseudohistory about this dynasty, Gavin Menzies argues that "[it] Discovered the World." The Vietnamese rebel Le Loi was defeated by this dynasty, which captured Alakesvara, the ruler of the kingdom of Kotte. Esen Teishi captured one of this dynasty's emperors in the Tumu Crisis, and it rose to power after defeating a rebel group at Lake Poyang. This dynasty came to an end when the (\*) Chongzhen Emperor hanged himself following the revolt of Li Zicheng. The jinyi wei was a secret police force of this dynasty's Hongwu Emperor, and the construction of the Forbidden City was commissioned by its Yongle Emperor. Zheng He set off on treasure voyages during, for 10 points, what Chinese dynasty that preceded the Qing?**  
ANSWER: Ming Dynasty <Ganeshan - World History>

14. **The seat of Ramsay County is named for this entity due to a misinterpretation of the Hidatsa language. The widest and most monumental waterfall in the Iguazu ["ee-guau-zoo"] River system is named for this entity. A natural formation adjacent to a ledge overlooking Victoria Falls is named for this entity, as is a geothermal pool within a limestone cavern in Death Valley National Park. The first national monument of the United States is a (\*) butte named for this figure, which was subject to a dispute to rechange its title to Bear Lodge. The climactic scenes of *Close Encounters of the Third Kind* were filmed at that Wyoming "tower" named for this malicious figure. For 10 points, give this figure used to personify evil in a geographic location.**  
ANSWER: the Devil <Ganeshan - Geography>

15. **James Prinsep deciphered a set of documents written by this ruler in which he states "all men are my children." This ruler planted banyan trees at regular intervals as shelter for travelers. This ruler may have murdered 99 of his siblings, including Susima, in a succession dispute. This ruler, who was referred to as both "Piodasses" and "Beloved-of-the-gods" in a set of decrees, created a torture chamber called his "hell." This ruler built a pillar topped by four (\*) lions, located at Sarnath. This ruler's Rock Edicts described his decision to renounce violence after the bloody Kalinga War, which led him to convert to Buddhism. For 10 points, name this "Great" Mauryan ruler and grandson of Chandragupta.**  
ANSWER: Ashoka Maurya [or Ashoka the Great, or Asoka] <Morales - Ancient/Other History>

16. The installation *Untitled 1986* depicts one of these animals that has broken headfirst through a roof. Charles Saatchi commissioned a work depicting one of these animals that the artist had to replace when it was sold to Steven Cohen. A work depicting one of these animals was inspired by Raphael's *Miraculous Draught of Fishes*, one figure in that work takes the post of the *Borghese Gladiator*. The (\*) Morro Castle is seen in the background of a work depicting one of these animals, one of which was encased in formaldehyde by Damien Hirst. One of these animals is incorrectly depicted with lips while being attacked by a man with a harpoon in another work. For 10 points, name this aquatic animal that attacks Brook Watson in a work by John Singleton Copley.

ANSWER: sharks [accept *Watson and the Shark*] (Note: the Hirst work mentioned is *The Physical Impossibility of Death in the Mind of Someone Living*) <Young - Visual Fine Arts>

17. The speaker of a poem titled for one of these animals imagines "Our sincerest laughter With some pain is drought" after it is compared to a "rose embower'd in its own green leaves." One of these animals has "never known the weariness, the fever, and the fret" and titles a poem where the speaker decides not to be "charioted by Bacchus and his pards." In that poem titled for one of these animals, the speaker imagines Ruth amid the "alien corn" and imagines himself "half in love with easeful death." One of these animals is compared to a "poet hidden in the light of thought" and is asked to teach (\*) "half the gladness that thy brain must know." One of these animals was "not born for death" in a poem that wonders "do I wake or do I sleep?" Another poem about one of them opens with the praise, "hail to thee, blithe spirit!" For 10 points, name these subjects of "To a Skylark" and "Ode to a Nightingale."

ANSWER: birds [accept skylarks or nightingales before mentioned; do NOT accept or prompt on any other bird] <Ganeshan - British Literature>

18. Degenerate forms of these entities which get stabilized by a z component can undergo a Jahn-Teller ["yan TEL-er"] elongation. Crystal field theory explains the splitting of one of these entities into high-spin and low-spin forms as a result of relative ligand proximity. Locations of zero density within these entities are called nodes. The azimuthal quantum number of these entities describes their (\*) shape. The occupancy of these entities at ground-state is predicted by Hund's rule, and the order in which these entities are filled is governed by the Aufbau principle. These entities come in s, p, d, and f types. For 10 points, name these entities, the regions around an atom in which electrons are likely located.

ANSWER: atomic orbitals [anti-prompt on d, f, s, and p orbitals until mentioned; do NOT accept or prompt on molecular orbitals] <Tegulla - Chemistry>

19. In Inuit mythology, the goddess Sedna became a ruler of this domain after attacking her parents due to her hunger. Apsu was the deity of one of these locations in Babylonian mythology, and was the husband of Tiamat. The Irish deity of this domain shook his cloak between Cúchulainn ["COO-coo-lane"] and Fand to cause them to forget each other. That deity of this domain was Manannán mac Lir. The Shinto kami of this domain used the (\*) Kanju jewels and was named Ryujin. The Greek god of this domain was known as the earthshaker, and was married to Amphitrite. That god of this domain summoned a salt spring with his trident, but lost to Athena in a contest for patronage of Athens. For 10 points, name this elemental domain associated with gods like Varuna and Poseidon.

ANSWER: the ocean [or the sea; accept the underworld before "Apsu"; prompt on water] <Prasanna - Mythology>

20. A story by this author claims that playing chess merely requires calculations whereas playing checkers merely requires analysis. Jacques Lacan ["luh-CAWN"] and Jacques Derrida ["dare-ih-duh"] debated over an object in one of this author's stories, in which characters detail the marble game "even and odd." In that story by this author, a Prefect named G- orders the legs of furniture to be removed in a certain hotel. Adolphe Le Bon is released in one story by this author, where characters have trouble understanding the nationality of a certain "gruff" voice. Minister D hides the titular (\*) letter in a card rack and returns it for 50,000 francs in a story by this author. In another story by this author, Camille L'Esplanaye ["come-eel lay-es-pan-yay"] is found stuffed in a chimney after being murdered by an Orangutan. C. Auguste Dupin ["oh-goost do-pahn"] features in many stories by, for 10 points, what author of "The Purloined Letter" and "The Murders in the Rue Morgue?"

ANSWER: Edgar Allan Poe <Ganeshan - American Literature>