

## AP Computer Science A - Free Response Questions

Year	Q1	Q2	Q3	Q4
2017	ArrayList Digits  a) constructor b) isStrictlyIncreasing	Class MultPractice	String Phrase  a) replaceNthOccurance b) findLastOccurence	2D Array Position  a) findPosition b) getSuccessorArray
2016	Class Random String Chooser  a) RandomStringChooser b) RandomLetterChooser	Class LogMessage  a) constructor b) containsWord c) removeMessages	2D Array Crossword  a) toBeLabeled b) constructor	String, ArrayList StringFormatter  a) totalLetters b) basicGapWidth c) format
2015	Array, 2D Array Diverse Array  a) arraySum b) rowSums c) isDiverse	Class Guessing Game  HiddenWord	ArrayList SparseArray  a) getValueAt b) removeColumn	Interface Number Group  a) NumberGroup b) Range c) contains
2014 (Last year for Case Study)	String, ArrayList Word Scramble  a) scrambleWord b) scrambleOrRemove	Gridworld Design class  Director	2D Array Seating Chart  a) constructor b) removeAbsentStudents	Class Trio  Design class
2013	ArrayList Song List  a) getDownloadInfo b) updateDownloads	Array TokenPass  a) constructor b) distributeCurrent PlayerTokens	GridWorld Jumping Critter  a) getEmptyLocations b) JumpingCritter	2D Array SkyView  a) constructor b) getAverage

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Year	Q1	Q2	Q3	Q4
2012	ArrayList Climbing Club  a) addClimb b) addClimb	GridWorld RetroBug  Design class	Array Horse Barn  a) findHorseSpace b) consolidate	2D Array Gray Image  a) countWhitePixels b) processImage
2011	Array Sound  a) limitAmplitude b) trimSilenceFromBeginning	GridWorld AttractiveCritter  Design class	ArrayList Fuel Depot  a) nextTankToFill b) moveToLocation	2D Array RouteCipher  a) fillBlock b) encryptMessage
2010	ArrayList CookieOrder  a) getTotalBoxes b) removeVariety	Class APLine  Design class	Array Trail  a) isLevelTrailSegment b) isDifficult	Gridworld GridChecker  a) actorWithMostNeighbors b) getOccupiedWithinTwo
2009 (Last year for AB)	Array Number cube  a) getCubeTosses b) getLongestRun	GridWorld Stockpile Critter  Design class	Array BatteryCharger  a) getChargingCost b) getChargeStartTime	ArrayList TileGame  a) getIndexForIt b) insertTile
2008	ArrayList FlightList  a) getDuration b) getShortestLayover	ArrayList StringCoder  a) decodeString b) encodeString	Grid World Opossum Critter  a) processActors b) selectMoveLoc	Class Checker  a) SubstringChecker b) AndChecker c) yummyChecker

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Year	Q1	Q2	Q3	Q4
2007	Array SelfDivisor  a) isSelfDivisor b) firstNumSelfDivisors	MBS PounceFish  a) findFish b) act	ArrayList StudentAnswerSheet  a) getScore b) highestScoringStudent	Class GameState  a) RandomPlayer b) play
2006	ArrayList Appointment  a) conflictsWith b) clearConflicts c) addAppt	Class Item  a) purchasePrice b) Vehicle	Array Customer  a) compareCustomer b) prefixMerge	MBS DropGame  a) dropLocationForColumn b) dropMatchesNeighbors
2005	Array and ArrayList Hotel Reservation  a) requestRoom b) cancelAndReassign	Class Ticket  a) Advance b) StudentAdvance	MBS ZigZagFish  a) nextLocation b) move	Array StudentRecord  a) average b) hasImproved c) finalAverage
2004	ArrayList Wordlist  a) numWordsOfLength b) removeWordsOfLength	Class Pet  a) Cat b) Dog c) Kennel	MBS PondStocker  a) numUnder b) randomLocation c) addFish	Array Robot  a) forwardMoveBlocked b) move c) clearHall