

Exam simulation

ATPL - Airline Transport Pilot license - Flight Planning and Monitoring



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STUDENT NAME:

DATE AND TIME:

01. In a land- and sea-breeze circulation the land-breeze blows:

- a) During the day and is stronger than the sea-breeze.
- b) During the night and is weaker than the sea-breeze.
- c) During the night and is stronger than the sea-breeze.
- d) During the day and is weaker than the sea-breeze.

02. QNH is the Q-code to indicate:

- a) The atmospheric pressure at aerodrome elevation (or at runway threshold)
- b) The atmospheric pressure measured at the aerodrome reference point (ARP)
- c) The altimeter sub-scale setting to obtain elevation when on the ground
- d) The atmospheric pressure referred to the highest obstacle located on the surface of an aerodrome

03. An aeroplane must be re-weighed at certain intervals. Where an operator uses 'fleet masses' and provided that changes have been correctly documented, this interval is

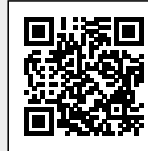
- a) 9 years for each aeroplane.
- b) Whenever a major modification is carried out.
- c) Whenever the Certificate of Airworthiness is renewed.
- d) 4 years for each aeroplane.

04. The fuel temperature, at which, under standard conditions, the vapour ignites in contact with a flame and extinguishes immediately, is the:

- a) Combustion point
- b) Flash point
- c) Self ignition point
- d) Fire point

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05. Equivalent Air Speed (EAS) is:

- a) Calibrated Air Speed (CAS) corrected for compressibility error.
- b) True Air Speed (TAS) corrected for compressibility error.
- c) Calibrated Air Speed (CAS) corrected for density error.
- d) True Air Speed (TAS) corrected for compressibility and density errors.

06. What is the name for the sensation of rotation occurring during flight and which is caused by multiple stimulation of several semicircular canals at the same time?

- a) 'Seat-of-the-Pants' illusions
- b) Sudden incapacitation
- c) Graveyard spin
- d) 'Pilot's' Vertigo

07. Which of these statements about rudder limiting are correct or incorrect? 1) A rudder ratio changer system reduces the rudder deflection for a given rudder pedal deflection as the IAS increases. 2) A variable stop system limits both rudder and rudder pedal deflection as the IAS increases.

- a) 1) is correct, 2) is correct.
- b) 1) is incorrect, 2) is correct.
- c) 1) is correct, 2) is incorrect.
- d) 1) is incorrect, 2) is incorrect.

08. What should be usually done to perform a landing with the stabilizer jammed in the cruise flight position?

- a) Choose a lower landing speed than normal.
- b) If possible, relocate as many passengers as possible to the front of the cabin.
- c) Choose a higher landing speed than normal and/or use a lower flap setting for landing.
- d) Use the Mach trimmer until after landing.

09. You are flying at FL 200. Outside air temperature is -40°C , and the pressure at sea level is 1033 hPa. What is the true altitude?

- a) 20660 feet
- b) 19340 feet
- c) 18260 feet
- d) 21740 feet

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10. What colour streamer identifies medical supplies dropped to survivors?

- a) Yellow
- b) Blue
- c) Black
- d) Red

11. What does the word "NEGATIVE" mean?

- a) Proposed action granted.
- b) Permission not granted.
- c) Consider that transmission as not sent.
- d) Disregard last instruction.

12. Given: Distance from departure to destination: 950 NM Endurance: 3,5 h TAS: 360 kt Ground Speed Out: 320 kt Ground Speed Home: 400 kt. What is the distance and time of the PSR from the departure point?

- a) Distance: 622 NM Time: 117 min
- b) Distance: 328 NM Time: 62 min
- c) Distance: 311 NM Time: 52 min
- d) Distance: 528 NM Time: 79 min

13. A water fire extinguisher can be used without restriction for: 1. a paper fire. 2. a hydrocarbon fire. 3. a fabric fire. 4. an electrical fire. 5. a wood fire. The combination regrouping all the correct statements is:

- a) 2, 3, 4
- b) 1, 2, 3, 4, 5
- c) 2, 4, 5
- d) 1, 3, 5

14. Following a take-off determined by the 50' (15 m) screen height, a light twin climbs on a 10% over-the-ground climb gradient. It will clear a 900 m high obstacle in relation to the runway (horizontally), situated at 10000 m from the 50' clearing point with an obstacle clearance of:

- a) 100 m
- b) 115 m
- c) It will not clear the obstacle
- d) 85 m

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15. The distress communication and silence conditions shall be terminated by transmitting a message. Which words shall this message include?

- a) Distress traffic ended
- b) Disregard distress communication, OUT
- c) MAYDAY traffic ended
- d) Emergency communication finished

16. Given: TAS = 132 kt, True HDG = 257°W/V = 095°(T)/35kt. Calculate the drift angle and GS?

- a) 2°R - 166 kt
- b) 4°R - 165 kt
- c) 3°L - 166 kt
- d) 4°L - 167 kt

17. The decrease in temperature, per 100 metres, in an unsaturated rising parcel of air is:

- a) 1°C
- b) 0.5°C
- c) 0.65°C
- d) 2°C

18. A commander shall not take-off for an IFR flight unless information is available indicating that the expected weather conditions at the destination and/or required alternate aerodrome(s) are:

- a) At the estimated time of arrival, at or above the planning minima.
- b) During a period from 1 hour before to 1 hour after the estimated time of arrival at the aerodrome, at or above the planning minima.
- c) At the estimated time of arrival better than the minimum conditions required for aerodrome use.
- d) At the estimated time of arrival, and for a reasonable period before and after such a predicted time, equal to or better than the minimum conditions required for aerodrome use.

19. The thrust of a jet engine at constant RPM

- a) Increases in proportion to the airspeed.
- b) Is inversely proportional to the airspeed.
- c) Is independent of the airspeed.
- d) Does not change with changing altitude.

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20. What does the abbreviation 'RNAV' mean?

- a) Radar aided navigation
- b) Route navigation
- c) Area navigation
- d) Radio navigation

21. At a constant Mach number the thrust and the fuel flow of a jet engine

- a) Are independent of outside air temperature (OAT).
- b) Increase with increasing altitude.
- c) Increase in proportion to the ambient pressure at constant temperature.
- d) Decrease in proportion to the ambient pressure at constant temperature.

22. Considering VR, which statement is correct?

- a) VR is the lowest climb speed after engine failure
- b) In case of engine failure below VR the take-off should be aborted
- c) VR is the speed at which rotation should be initiated
- d) VR is the lowest speed for directional control in case of engine failure

23. What does the word "WILCO" mean?

- a) I read you fine.
- b) I understand your message and will comply with it.
- c) I have received all of your last transmission.
- d) As communication is difficult, I will call you later.

24. How many feet you have to climb to reach FL 75? Given: FL 75 departure aerodrome elevation 1500' QNH = 1023 hPa temperature = ISA 1 hPa = 30'

- a) 6000'
- b) 6300'
- c) 7800'
- d) 5700'

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25. 'Flutter' may be caused by:

- a) Low airspeed aerodynamic wing stall.
- b) Roll control reversal.
- c) Distortion by bending and torsion of the structure causing increasing vibration in the resonance frequency.
- d) High airspeed aerodynamic wing stall.

26. On a Mercator chart, at latitude 60°N, the distance measured between W002° and E008° is 20 cm. The scale of this chart at latitude 60°N is approximately:

- a) 1: 278 000
- b) 1: 5 560 000
- c) 1: 2 780 000
- d) 1: 556 000

27. The purposes of the oil and the nitrogen in an oleo-pneumatic strut are:

- a) The oil supplies the spring function and the nitrogen supplies the damping function.
- b) The oil supplies the damping function and the nitrogen supplies the spring function.
- c) The oil supplies the damping and lubrication function, the nitrogen supplies the heat-dissipation function.
- d) The oil supplies the sealing and lubrication function, the nitrogen supplies the damping function.

28. Why is the artificial feel required on some flight control systems and how is the degree of the feel set?

- a) It is fitted to prevent over-stressing of the aircraft and provides increased forces as the speed increases.
- b) It is fitted to prevent over-stressing of the aircraft and provides decreased forces as the speed increases.
- c) It is fitted to assist the pilot to move the controls and provides decreased assistance as the speed increases.
- d) It is fitted to assist the pilot to move the controls and provides increased assistance as the speed increases.

29. Route 'A' (44°N 026°E) to 'B' (46°N 024°E) forms an angle of 35° with longitude 026°E. Variation at A is 3°E. What is the initial magnetic track from A to B?

- a) 032°
- b) 328°
- c) 038°
- d) 322°

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30. The age of an applicant for a commercial pilot licence shall not be less than:

- a) 17 years of age
- b) 21 years of age
- c) 16 years of age
- d) 18 years of age

31. A pitot tube covered by ice which blocks the ram air inlet will affect the following instrument (s):

- a) Vertical speed indicator only.
- b) Altimeter only.
- c) Airspeed indicator, altimeter and vertical speed indicator.
- d) Airspeed indicator only.

32. According to ICAO Annex 10, in which frequency band(s) does a locator normally transmit?

- a) MF/HF
- b) HF
- c) LF/MF
- d) HF/VHF

33. The ICAO Standard Atmosphere (ISA) assumes that temperature will reduce at the rate of:

- a) 1,98°C per 1000 FT up to 36090 FT and will then rise at 0.3°C per 1000 FT up to 65617 FT when it will remain constant
- b) 2°C per 1000 FT up to 65617 FT after which it will remain constant to 104987 FT
- c) 1.98°C per 1000 FT up to 36090 FT after which it remains constant to 65617 FT
- d) 2°C per 1000 FT up to 36090 FT and will then increase at 0.3°C per 1000 FT up to 65617 FT

34. A message concerning a protected medical transport operated by aircraft assigned exclusively to medical transportation shall be preceded by the signal:

- a) MEDICAL TRANSPORT
- b) PAN PAN MEDICAL
- c) PAN PAN TRANSPORT
- d) PROTECTED TRANSPORT

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35. The landing field length required for turbojet aeroplanes at the destination (wet condition) is the demonstrated landing distance plus:

- a) 67%
- b) 92%
- c) 43%
- d) 70%

36. The actual 'Take-off Mass' is equivalent to:

- a) Actual Zero Fuel Mass plus the traffic load
- b) Dry Operating Mass plus the take-off fuel
- c) Dry Operating Mass plus take-off fuel and the traffic load
- d) Actual Landing Mass plus the take-off fuel

37. For a flight crossing more than 3 to 4 time zones with a layover longer than 24 hours, which strategy best reduces circadian rhythm disruption?

- a) Adapt as soon as practicable to the destination local time and keep regular sleep, meal and light-exposure routines.
- b) Remain on departure-base time for the entire layover.
- c) Sleep at random times whenever possible, regardless of local daylight.
- d) Use alcohol or sedatives to force sleep at the destination.

38. If, in the event of a failure, the approach, flare and landing can be completed by the remaining part of the automatic system, such an automatic landing system is considered as:

- a) Fail-operational.
- b) Fail-hard.
- c) Fail-soft.
- d) Fail-passive.

39. Given: Maximum structural take-off mass= 146 900 kg Maximum structural landing mass= 93 800 kg Maximum zero fuel mass= 86 400 kg. Trip fuel= 27 500 kg. Block fuel= 35 500 kg. Engine starting and taxi fuel = 1 000 kg. The maximum take-off mass is equal to:

- a) 113 900 kg
- b) 121 300 kg
- c) 120 300 kg
- d) 120 900 kg

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40. Approach Procedures - Circling. It is permissible to eliminate from consideration a particular sector where a prominent obstacle exists in the visual manoeuvring (circling) area outside the final approach and missed approach area. When this option is exercised, the published procedure:

- a) Prohibits circling within the total sector in which the obstacle exists.
- b) Prohibits the circling approach to the affected runway.
- c) Recommends not to perform circling within the total sector in which the obstacle exists.
- d) Permits circling only in VMC.

41. Among the systematic errors of the 'directional gyro', the error due to the earth rotation make the north reference turn in the horizontal plane. At a mean latitude of 45°N, this reference turns by...

- a) 7.5°/hour to the right.
- b) 15°/hour to the right.
- c) 7.5°/hour to the left.
- d) 10.5°/hour to the right.

42. What does the phrase 'Squawk 1234' mean:

- a) Make a test transmission on 123.4 MHz
- b) Give a short count for DF (direction finder)
- c) Standby on frequency 123.4 MHz
- d) Select code 1234 on the SSR transponder

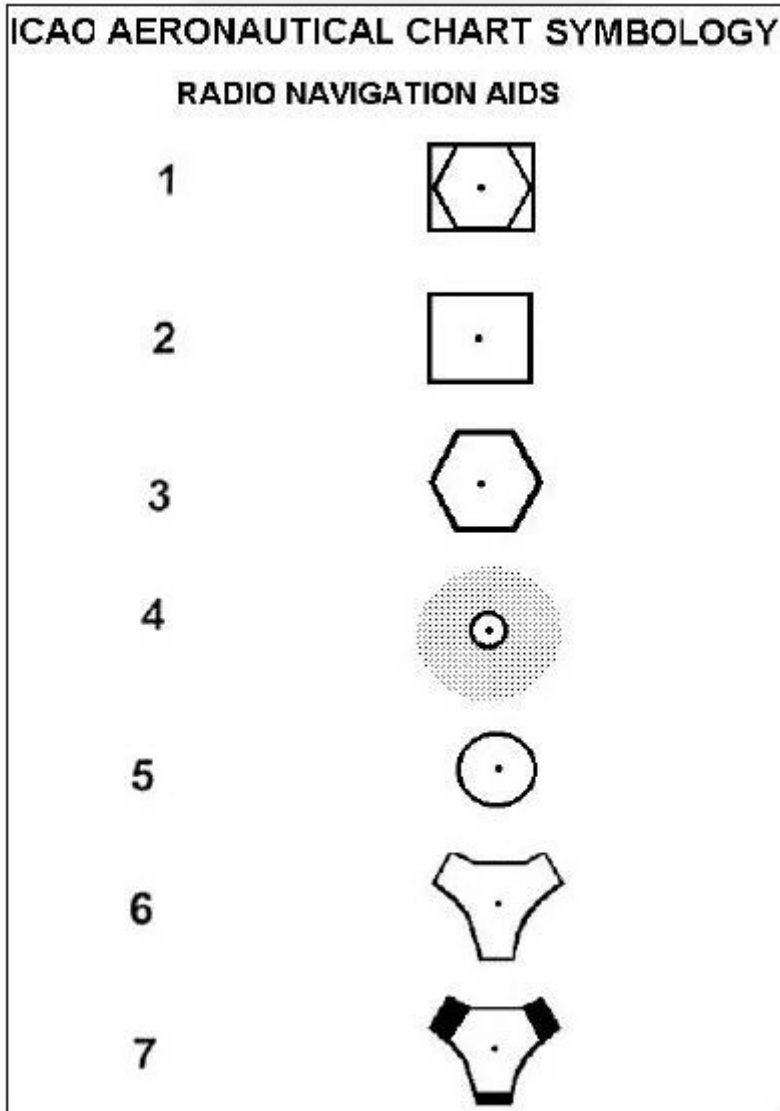
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43. Which of the aeronautical chart symbols indicates a VOR?



- a) 3
- b) 7
- c) 2
- d) 1

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44. For a given airfield the QFE is 980 hPa and the QNH is 1000 hPa. The approximate elevation of the airfield is

- a) 540 metres
- b) 600 metres
- c) 120 metres
- d) 160 metres

45. What is the effect of increased mass on the performance of a gliding aeroplane?

- a) There is no effect
- b) The gliding angle decreases
- c) The speed for best angle of descent increases
- d) The lift / drag ratio decreases

46. The ground - air visual signal code for use by survivors on ground to indicate "AFIRMATIVE" is (search and rescue signals):

- a) Y
- b) V
- c) X
- d) N

47. What causes surface winds to flow across the isobars at an angle rather than parallel to the isobars?

- a) The greater density of the air at the surface.
- b) Coriolis force.
- c) The greater atmospheric pressure at the surface.
- d) Surface friction.

48. What is the frequency separation between consecutive frequencies in the VHF band:

- a) 25 kHz
- b) 75 kHz
- c) 8.33 kHz
- d) 50 kHz

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49. A Procedural Service is:

- a) A surveillance-based service for VFR flights in Class E airspace.
- b) An ATS for IFR flights in Class G airspace based on procedures rather than surveillance-derived traffic information.
- c) A service that guarantees separation from all aircraft.
- d) Another name for a Basic Service.

50. ATIS broadcast messages containing departure and arrival information should include cloud cover, when the clouds are:

- a) Below 900 m (3.000 ft) or below the highest minimum sector altitude, whichever is the greater
- b) Below 1 500 m (5.000 ft) or below the highest minimum sector altitude, whichever is the greater
- c) Cumulonimbus
- d) Below 2 000 m (600 ft) or below the highest minimum sector altitude, whichever is the greater

51. Presbyopia is:

- a) Long sightedness linked with age
- b) High intraocular pressure
- c) Myopia
- d) Short sightedness

52. What is the cross track deviation (XTK) indicated on an RNAV system?

- a) The distance between the actual position and the great circle track between two active waypoints.
- b) The distance between the air position and the planned track
- c) The distance between the air position and the great circle track between two active waypoints.
- d) The distance along a track between two waypoints

53. When should an aircraft in the heavy-wake-turbulence category include the word 'Heavy' immediately after its call sign for example, Fastair 345 heavy?

- a) Never
- b) In the initial call to the aerodrome control tower and the approach control unit
- c) In all calls to the aerodrome tower and the approach control unit
- d) In all calls

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54. According to CS-25 the landing reference speed V_{REF} may not be less than:

- a) $1.23 V_S$ and must be maintained down to 50' height
- b) $1.2 V_{MCA}$
- c) $1.23 V_{SR0}$ for turbojet powered and 1.3 for turboprop powered aeroplanes
- d) V_{SR0} and must be maintained down to 35' height

55. If other factors are unchanged, the fuel mileage (nautical miles per kg) is:

- a) Independent from the centre of gravity position
- b) Lower with an aft centre of gravity position
- c) Lower with a forward centre of gravity position
- d) Higher with a forward centre of gravity position

56. The speed V_1 is defined as:

- a) Take-off climb speed
- b) Speed for best angle of climb
- c) Take-off decision speed
- d) Engine failure speed

57. The maximum operating altitude for a certain aeroplane with a pressurised cabin

- a) Is dependent on aerodynamic ceiling.
- b) Is the highest pressure altitude certified for normal operation.
- c) Is only certified for four-engine aeroplanes.
- d) Is dependent on the OAT.

58. Which of the following equipments uses primary radar principles?

- a) Distance Measuring Equipment (DME)
- b) Secondary Surveillance Radar (SSR)
- c) Global Positioning System (GPS)
- d) Airborne weather radar (AWR)

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59. The expression "primary flight control" applies to the: 1) elevator 2) speed brake 3) lift-augmentation devices 4) roll spoilers. The combination that regroups all of the correct statements is:

- a) 1, 4
- b) 2, 3
- c) 1, 2, 3, 4
- d) 2, 4

60. Which of the following calls is a "GENERAL CALL"?

- a) YX-DEF Stephenville CONTROL.
- b) ALL STATIONS Stephenville CONTROL.
- c) YX-EFG, YX-FGH over.
- d) YX-ABC, YX-BCD, YX-CDE Stephenville CONTROL.

61. Flight Information Service shall be provided to aircraft in order to avoid collision hazards when operating in airspace classes:

- a) F and G only
- b) A, B, C, D, E, F and G
- c) C, D, E, F, and G
- d) F only

62. An aircraft is approaching under visual flight rules an airfield whose runway is parallel to the coast. When downwind over the sea, the airfield is on the right. What wind effect should be anticipated on final approach and landing during a sunny afternoon?

- a) Crosswind from the left
- b) Crosswind from the right
- c) Headwind
- d) Tailwind

63. An aircraft is required to approach a VOR station via the 244° radial. In order to obtain correct sense indications the deviation indicator should be set to:

- a) 064° with the FROM flag showing
- b) 244° with the FROM flag showing
- c) 064° with the TO flag showing
- d) 244° with the TO flag showing

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64. In the NAVSTAR/GPS satellite navigation system, re-use of Selective Availability would give the option to artificially degrade the accuracy by:

- a) Shutting off selected satellites
- b) Dithering the satellite clock
- c) Offsetting satellite atomic clocks by a predetermined constant amount
- d) Using a less accurate atomic clock in a satellite for signal processing

65. Given SHA VOR/DME (N5243.3 W00853.1), radial 025° and distance 49 NM, what is the aircraft position?

- a) N5328 W00820
- b) N5330 W00830
- c) N5200 W0925
- d) N5155 W00915

66. An airborne weather radar installation makes it possible to detect the location of

- a) Zones of precipitation, particularly liquid-state precipitation, and also their intensity
- b) Stratocumulus and its vertical development
- c) Cumulonimbus, but provided that cloud of this type is accompanied by falls of hail
- d) All clouds

67. Most large conventional aeroplanes are not provided with aileron and rudder trim tabs. Is it still possible to trim these control surfaces?

- a) Yes, trimming is possible by adjusting the neutral point of the artificial feel mechanism by means of a trim switch.
- b) No, because without trim tabs trimming is not possible.
- c) Yes, but trimming is only possible when before the flight, the respective auxiliary surfaces are correctly adjusted for cruising conditions by the maintenance department.
- d) Yes, but trimming is only possible when the autopilot is engaged.

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68. At the flight preparation stage, the following parameters in particular are available for determining the mass of the aircraft: 1- Dry operating mass 2- Operating mass. Which statement is correct:

- a) The operating mass is the mass of the aircraft without take-off fuel.
- b) The dry operating mass includes take-off fuel.
- c) The dry operating mass includes fixed equipment needed to carry out a specific flight.
- d) The operating mass includes the traffic load.

69. What is the radiotelephony call sign suffix for the aeronautical station providing radar service (in general)?

- a) RADAR
- b) RADAR-SERVICE
- c) RADAR-CONTROL
- d) CONTROL

70. The Dry Operating Mass is the total mass of the aircraft ready for a specific type of operation but excluding

- a) Usable fuel and traffic load.
- b) Usable fuel, potable water and lavatory chemicals.
- c) Potable water and lavatory chemicals.
- d) Usable fuel and crew.

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Response Scheme

Compare your answers with the following diagram and mark your score!

01: B	02: C	03: A	04: B
05: A	06: D	07: A	08: C
09: B	10: D	11: B	12: A
13: D	14: B	15: A	16: B
17: A	18: B	19: A	20: C
21: D	22: C	23: B	24: B
25: C	26: C	27: B	28: A
29: D	30: D	31: D	32: A
33: C	34: B	35: B	36: C
37: A	38: A	39: D	40: A
41: D	42: D	43: A	44: D
45: C	46: A	47: D	48: C
49: B	50: B	51: A	52: A
53: B	54: A	55: C	56: C
57: B	58: D	59: A	60: B
61: C	62: B	63: C	64: B
65: B	66: A	67: A	68: C
69: A	70: A		

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Response form

Use this form to mark your answers

01: _____	02: _____	03: _____	04: _____
05: _____	06: _____	07: _____	08: _____
09: _____	10: _____	11: _____	12: _____
13: _____	14: _____	15: _____	16: _____
17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____
25: _____	26: _____	27: _____	28: _____
29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
41: _____	42: _____	43: _____	44: _____
45: _____	46: _____	47: _____	48: _____
49: _____	50: _____	51: _____	52: _____
53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____		