

Exam simulation

SPL - Sailplane Pilot License - Communication



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STUDENT NAME:

DATE AND TIME:

01. After landing, you realize you lost your pen which might have fallen down in the cockpit of the sailplane. What has to be considered?

- a) Lighter, loose bodies in the fuselage can be considered uncritical
- b) Before next take-off, the cockpit has to be firmly inspected for loose bodies
- c) A flight without a pen at hand is not permitted
- d) Succeeding pilots have to be informed about that

02. The rotational axis of the Earth runs through the...

- a) Magnetic north pole and on the geographic South Pole
- b) Magnetic north pole and on the magnetic south pole
- c) Geographic North Pole and on the magnetic south pole
- d) Geographic North Pole and on the geographic South Pole

03. The term 'civil twilight' is defined as...

- a) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the apparent horizon
- b) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the true horizon
- c) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the true horizon
- d) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the apparent horizon

04. What are the major components of an aircraft's tail?

- a) Rudder and ailerons
- b) Steering wheel and pedals
- c) Horizontal tail and vertical tail
- d) Ailerons and elevator

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05. What is the function of the horizontal tail (among other things)?

- a) To stabilise the aeroplane around the longitudinal axis
- b) To stabilise the aeroplane around the lateral axis
- c) To initiate a curve around the vertical axis
- d) To stabilise the aeroplane around the vertical axis

06. What is the correct way of acknowledging the instruction "Squawk 4321, Call Bremen Radar on 131.325"?

- a) Roger
- b) Squawk 4321, 131.325
- c) Squawk 4321, wilco
- d) Wilco

07. During a flight, a flight plan can be filed at the...

- a) Search and Rescue Service (SAR)
- b) Flight Information Service (FIS)
- c) Next airport operator en-route
- d) Aeronautical Information Service (AIS)

08. The term 'True Course' (TC) is defined as...

- a) The direction from an arbitrary point on Earth to the magnetic north pole
- b) The direction from an arbitrary point on Earth to the geographic North Pole
- c) The angle between magnetic north and the course line
- d) The angle between true north and the course line

09. Exceeding the maximum allowed aircraft mass is...

- a) Compensated by the pilot's control inputs
- b) Only relevant if the excess is more than 10 %
- c) Exceptionally permissible to avoid delays
- d) Not permissible and essentially dangerous

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10. Primary fuselage structures of wood or metal planes are usually made up by what components?

- a) Covers, stringers and forming parts
- b) Frames and stringers
- c) Girders, ribs and stringers
- d) Ribs, frames and covers

11. In what case is the pilot allowed to abbreviate the call sign of his aircraft?

- a) After passing the first reporting point
- b) If there is little traffic in the traffic circuit
- c) Within controlled airspace
- d) After the ground station has used the abbreviation

12. The directional information "12 o'clock" is correctly transmitted as...

- a) One two
- b) Twelve o'clock
- c) One two hundred
- d) One two o'clock

13. During airtow, the towing plane disappears from the glider pilot's sight. What action should be taken by the glider pilot?

- a) Decouple cable immediately
- b) Alternate push and pull on the elevator
- c) Alternate turn to the left and to the right
- d) Extend spoiler flaps and return to normal attitude

14. In case of a cable break during winch launch, what actions should be taken in the correct order?

- a) Decouple cable, thereafter push nose down; at heights up to 150m GND land straight ahead with increased speed
- b) Push firmly nose down, decouple cable, depending on terrain and wind decide for short pattern or landing straight ahead
- c) Initiate 180° turn and land opposite to runway heading in use, decouple cable before touch down
- d) Keep elevator pulled, stabilize on minimum speed and land on remaining field length

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15. How many satellites are necessary for a precise and verified three-dimensional determination of the position?

- a) Two
- b) Three
- c) Five
- d) Four

16. What is the correct way of establishing radio communication between D-EAZF and Dusseldorf Tower?

- a) Dusseldorf Tower over
- b) DEAZF is calling Dusseldorf Tower
- c) Dusseldorf Tower D-EAZF
- d) Tower from D-EAZF

17. What engine design at a Touring Motor Glider (TMG) results in least drag?

- a) Engine and propeller mounted fixed on the fuselage
- b) Engine and propeller mounted stowable on the fuselage
- c) Engine and propeller mounted fixed at the aircraft's nose
- d) Engine and propeller mounted fixed at the horizontal stabilizer

18. When commencing a steep turn, what has to be considered by the pilot?

- a) After achieving bank angle, reduce yaw using opposite rudder
- b) Commence turn with reduced speed according to aimed bank angle
- c) Commence turn with increased speed according to aimed bank angle
- d) After achieving bank angle, push the elevator to increase speed

19. Which altitude is displayed on the altimeter when set to a specific QNH?

- a) Altitude in relation to mean sea level
- b) Altitude in relation to the 1013.25 hPa datum
- c) Altitude in relation to the highest elevation within 10 km
- d) Altitude in relation to the air pressure at the reference airfield

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20. Which transponder code indicates a loss of radio communication?

- a) 2000
- b) 7600
- c) 7000
- d) 7700

21. In case of a stall it is important to...

- a) Increase the angle of attack and increase the speed
- b) Decrease the angle of attack and increase the speed
- c) Increase the angle of attack and reduce the speed
- d) Increase the bank angle and reduce the speed

22. Which of the following is responsible for the blood coagulation?

- a) Capillaries of the arteries
- b) Red blood cells (erythrocytes)
- c) Blood plates (thrombocytes)
- d) White blood cells (leucocytes)

23. What are the effects of wet grass on the take-off and landing distance?

- a) Decrease of the take-off distance and increase of the landing distance
- b) Increase of the take-off distance and increase of the landing distance
- c) Increase of the take-off distance and decrease of the landing distance
- d) Decrease of the take-off distance and decrease of the landing distance

24. What is the function of the blood platelets (thrombocytes)?

- a) Oxygen transport
- b) Blood sugar regulation
- c) Immune defense
- d) Blood coagulation

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25. In what cases is visibility transmitted in kilometers?

- a) Greater than 10 km
- b) Up to 5 km
- c) Greater than 5 km
- d) Up to 10 km

26. Heavy downdrafts and strong wind shear close to the ground can be expected...

- a) Near the rainfall areas of heavy showers or thunderstorms
- b) During approach to an airfield at the coast with a strong sea breeze
- c) During cold, clear nights with the formation of radiation fog
- d) During warm summer days with high, flatted Cu clouds

27. The holder of an SPL license or LAPL(S) license completed a total of 9 winch launches, 4 launches in aero-tow and 2 bungee launches during the last 24 months. What launch methods may the pilot conduct as PIC today?

- a) Winch and bungee.
- b) Winch, bungee and aero-tow.
- c) Winch and aero-tow.
- d) Aero-tow and bungee.

28. During a cross-country flight, you approach a downwind turning point. The point should be taken...

- a) As low as possible
- b) As steep as possible
- c) As high as possible
- d) With as little bank as possible

29. What is referred to as torsion-stiffed leading edge?

- a) The part of the main cross-beam to support torsion forces
- b) Special shape of the leading edge
- c) The point where the torsion moment on a wing begins to decrease
- d) Both-side planked leading edge (from edge to cross-beam) to support torsion forces



30. What process causes latent heat being released into the upper troposphere?

- a) Cloud forming due to condensation
- b) Descending air across widespread areas
- c) Evaporation over widespread water areas
- d) Stabilisation of inflowing air masses

31. Carbon monoxide poisoning can be caused by...

- a) Alcohol
- b) Unhealthy food
- c) Little sleep
- d) Smoking

32. An energy-compensated vertical speed indicator (VSI) shows during stationary glide the vertical speed...

- a) Of the glider through surrounding air
- b) Of the airmass flown through
- c) Of the glider plus movement of the air
- d) Of the glider minus movement of the air

33. Which are the properties of a Lambert conformal chart?

- a) The chart is conformal and an equal-area projection
- b) Great circles are depicted as straight lines and the chart is an equal-area projection
- c) Rhumb lines are depicted as straight lines and the chart is conformal
- d) The chart is conformal and nearly true to scale

34. Which phrase is to be used when a pilot wants the tower to know that he is ready for take-off?

- a) Ready for departure
- b) Request take-off
- c) Ready for start-up
- d) Ready



35. Which are the advantages of sandwich structures?

- a) Low weight, high stiffness, high stability, and high strength
- b) High temperature durability and low weight
- c) High strength and good formability
- d) Good formability and high temperature durability

36. During flight close to aerodrome in about 250 m AGL you encounter strong descent and go for a safety landing. What speed should be flown when heading towards the airfield?

- a) Best glide speed plus additional for downdrafts and wind
- b) Best glide speed
- c) Minimum rate of descent speed
- d) Maximum manoeuvring speed VA

37. The term 'civil twilight' is defined as...

- a) The period of time before sunrise or after sunset where the midpoint of the sun disk is 6 degrees or less below the apparent horizon.
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- c) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the true horizon.
- d) The period of time before sunrise or after sunset where the midpoint of the sun disk is 12 degrees or less below the apparent horizon.

38. What is the ISA standard pressure at FL 180 (5500 m)?

- a) 300 hPa
- b) 250 hPa
- c) 1013.25 hPa
- d) 500 hPa

39. During a high altitude flight (6000 m MSL), the glider pilot realizes that oxygen will be consumed within a few minutes. What actions should be taken by the glider pilot?

- a) After depletion of oxygen, stay at that altitude no longer than 30 min
- b) At first indication of hypoxia, commence descent with maximum allowed speed
- c) Extend spoiler flaps, descent with maximum permissible speed
- d) Reduce oxygen flow by breathing slowly

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40. Which phrase is to be repeated three times before transmitting an urgency message?

- a) Mayday
- b) Urgent
- c) Pan Pan
- d) Help

41. Which of the following factors affects the reception of VHF transmissions?

- a) Height of ionosphere
- b) Altitude
- c) Twilight error
- d) Shoreline effect

42. The empty weight and the corresponding center of gravity (CG) of an aircraft are initially determined...

- a) By weighing
- b) By calculation
- c) For one aircraft of a type only, since all aircraft of the same type have the same mass and CG position
- d) Through data provided by the aircraft manufacturer

43. The term "ceiling" is defined as the...

- a) Height of the base of the highest layer of clouds covering more than half of the sky below 20000 ft.
- b) Height of the base of the lowest layer of clouds covering more than half of the sky below 10000 ft.
- c) Height of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.
- d) Altitude of the base of the lowest layer of clouds covering more than half of the sky below 20000 ft.

44. What are the primary and the secondary effects of a rudder input to the left?

- a) Primary: yaw to the right Secondary: roll to the left
- b) Primary: yaw to the left Secondary: roll to the left
- c) Primary: yaw to the right Secondary: roll to the right
- d) Primary: yaw to the left Secondary: roll to the right

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45. What is the approximate speed of electromagnetic wave propagation?

- a) 123000 m/s
- b) 300000 km/s
- c) 123000 km/s
- d) 300000 m/s

46. The airspeed indicator is unservicable. The airplane may only be operated...

- a) If no maintenance organisation is around
- b) If only airfield patterns are flown
- c) When the airspeed indicator is fully functional again
- d) When a GPS with speed indication is used during flight

47. During approach, tower provides the following information: "Wind 15 knots, gusts 25 knots". How should the landing be performed?

- a) Approach with minimum speed, correct changes in attitude with careful rudder inputs
- b) Approach with normal speed, maintain speed using spoiler flaps
- c) Approach with increased speed, correct changes in attitude with firm rudder inputs
- d) Approach with increased speed, avoid usage of spoiler flaps

48. What types of boundary layers can be found on an aerofoil?

- a) Laminar boundary layer along the complete upper surface with non-separated airflow
- b) Turbulent layer at the leading wing areas, laminar boundary layer at the trailing areas
- c) Turbulent boundary layer along the complete upper surface with separated airflow
- d) Laminar layer at the leading wing areas, turbulent boundary layer at the trailing areas

49. What condition may prevent the formation of "radiation fog"?

- a) Calm wind
- b) Clear night, no clouds
- c) Low spread
- d) Overcast cloud cover

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50. (For this question, please use annex PFP-063) According to ICAO, what symbol indicates a general spot elevation?

- A 300
- B (300)
- C • 1737
- D • 1737

PFP-063

- a) D
- b) C
- c) B
- d) A

51. Following a single-wing stall and pitch-down moment, how can a spin be prevented?

- a) Deflect all rudders opposite to lower wing
- b) Rudder opposite lower wing, releasing elevator to build up speed
- c) Pushing the elevator to build up speed to re-attach airflow on wings
- d) Pulling the elevator to bring the plane back to normal attitude

52. The angle of descent is defined as...

- a) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in percent [%]
- b) The angle between a horizontal plane and the actual flight path, expressed in degrees [°]
- c) The angle between a horizontal plane and the actual flight path, expressed in percent [%]
- d) The ratio between the change in height and the horizontal distance travelled within the same time, expressed in degrees [°]

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53. Which factor shortens landing distance?

- a) Heavy rain
- b) High pressure altitude
- c) High density altitude
- d) Strong head wind

54. What does the abbreviation "FIR" stand for?

- a) Flight information region
- b) Flight integrity receiver
- c) Flow integrity required
- d) Flow information radar

55. What is the minimum flight visibility in airspace "C" for an aircraft operating under VFR at FL125?

- a) 8000 m
- b) 1500 m
- c) 5000 m
- d) 3000 m

56. Urgency messages are messages...

- a) Sent by a pilot or an aircraft operating agency which have an imminent meaning for aircraft in flight
- b) Concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- c) Concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance
- d) Concerning the operation or maintenance of facilities essential for the safety or regularity of aircraft operation

57. A glider pilot has to conduct an off-field landing in a mountainous region. The only available landing site is highly inclined. How should the landing be conducted?

- a) Approach with increased speed, quick flare to follow the inclined ground
- b) Approach down the ridge with increased speed, push according to ground level during landing
- c) According to prevailing wind, approach and land parallel to the ridge with headwind
- d) Approach with minimum speed, careful flare when reaching the landing site

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58. Which abbreviation is used for the term "obstacle"?

- a) OBST
- b) OBTC
- c) OST
- d) OBS

59. What has to be checked before any change in direction during glide?

- a) Check for turn to be flown coordinated
- b) Check for thermal clouds
- c) Check for loose object secured
- d) Check for free airspace in desired direction

60. What color has the emergency hood release handle?

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

61. The term "moment" with regard to a mass and balance calculation is referred to as...

- a) Sum of a mass and a balance arm
- b) Difference of a mass and a balance arm
- c) Quotient of a mass and a balance arm
- d) Product of a mass and a balance arm

62. A Grey-out is the result of...

- a) Hyperventilation
- b) Tiredness
- c) Hypoxia
- d) Positive g-forces



63. The balance arm is the horizontal distance between...

- a) The C.G. of a mass and the rear C.G. limit
- b) The front C.G. limit and the datum line
- c) The front C.G. limit and the rear C.G. limit
- d) The C.G. of a mass and the datum line

64. Unless the aircraft is equipped and certified accordingly...

- a) Flight into forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, the flight may be continued as long as visual meteorological conditions are maintained
- b) Flight into known or forecast icing conditions is only allowed as long as it is ensured that the aircraft can still be operated without performance degradation
- c) Flight into known or forecast icing conditions is prohibited. Should the aircraft enter an area of icing conditions inadvertently, it should be left without delay
- d) Flight into areas of precipitation is prohibited

65. Which statement concerning the angle of attack is correct?

- a) Increasing the angle of attack results in decreasing lift
- b) The angle of attack cannot be negative
- c) A too large angle of attack may result in a loss of lift
- d) The angle of attack is constant throughout the flight

66. How often shall a blind transmission be made?

- a) Two times
- b) Four times
- c) Three times
- d) One time

67. A vertical speed indicator measures the difference between...

- a) Total pressure and static pressure
- b) Dynamic pressure and total pressure
- c) Instantaneous static pressure and previous static pressure
- d) Instantaneous total pressure and previous total pressure

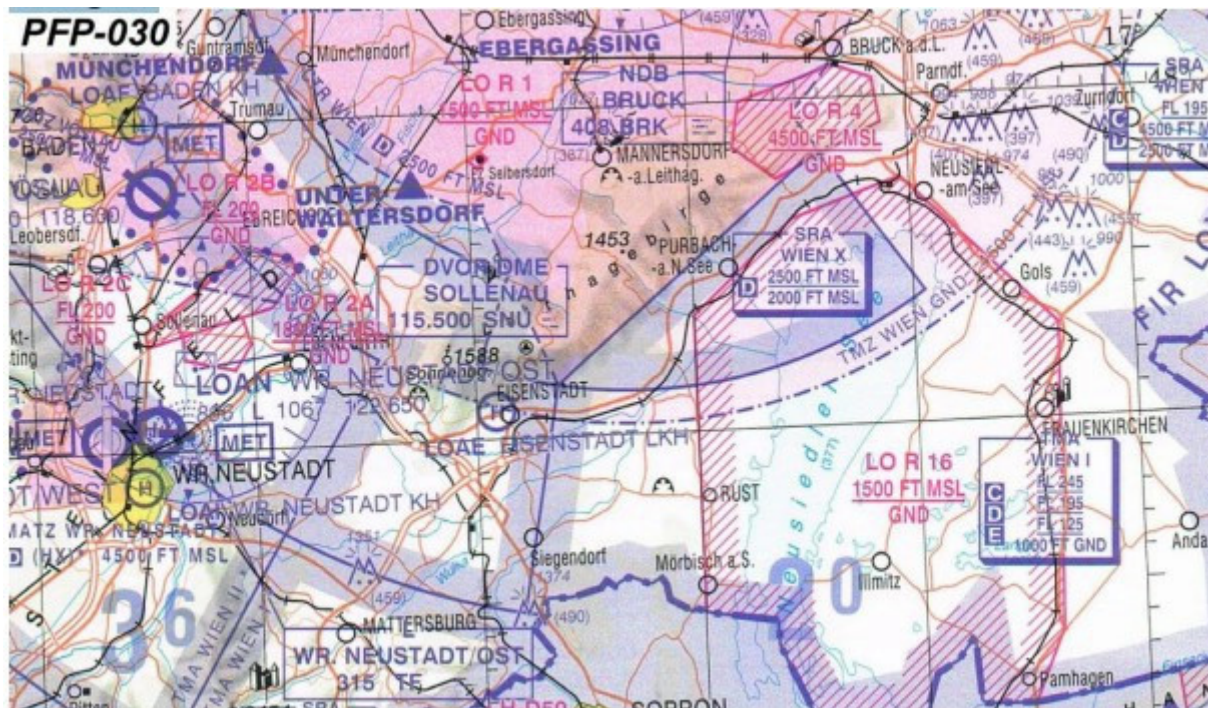
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68. The upper limit of LO R 4 equals... See annex (PPF-030)



- a) 1.500 ft AGL
- b) 1.500 ft MSL
- c) 4.500 ft MSL
- d) 1.500 ft MSL

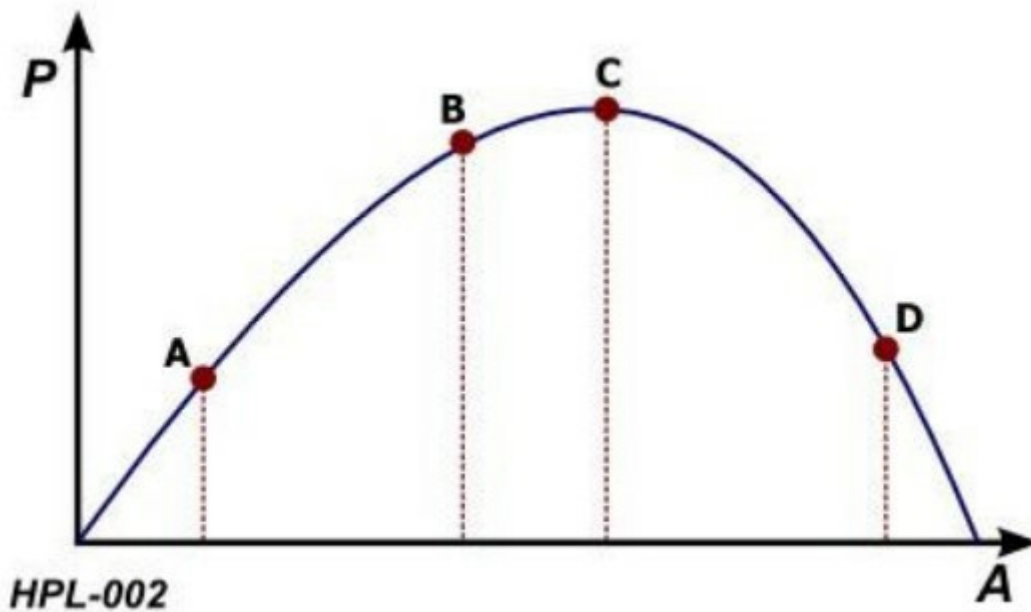
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69. At which point in the diagram will a pilot find himself to be overstrained? See figure (HPL-002) P = Performance
A = Arousal / Stress



- a) Point B
- b) Point C
- c) Point A
- d) Point D

70. Distress messages contain...

- a) Information concerning urgent spare parts which are required for a continuation of flight and which have to be ordered in advance
- b) Information concerning the apron personnel and which imply an imminent danger to landing aircraft
- c) Information concerning the safety of an aircraft, a watercraft or some other vehicle or person in sight
- d) Information concerning aircraft and their passengers which face a grave and imminent threat and require immediate assistance

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Response Scheme

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

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

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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: _____		