For each of the following, indicate whether it is a wff (True means that it is a wff) .

1. $\neg\Big)$ ..... True/False
2. $\neg S \supset P)$ ..... True/False
3. $[(P \wedge Q) \wedge (T \wedge Q)] \supset [(Q \vee S) \supset P]$ ..... True/False
4. $\neg\neg Q$ ..... True/False
5. $[Q \supset (T \vee W)] \vee [\neg R \wedge (T \supset P)\Big)\Big)$ ..... True/False
6. $W\Big\}$ ..... True/False
7. $[(Q \wedge W) \supset (\{ \vee S)] \wedge \neg\neg Q$ ..... True/False
8. $P\neg \wedge S$ ..... True/False
9. S ..... True/False
10. $\{[(R \wedge Q) \supset (W \supset W)] \vee S\} \wedge (S \vee P$ ..... True/False
11. $[(T \supset P) \wedge R] \vee \neg(P \vee \neg R)$ ..... True/False
12. $[\neg(T \wedge S) \vee W] \vee \neg(T \supset R)$ ..... True/False
13. $[(W \supset W) \wedge W] \wedge [(W \vee P) \supset W]$ ..... True/False
14. $(\neg T \vee \neg R) \supset [P \wedge (S \wedge Q)]$ ..... True/False
15. $\neg(R \wedge W) \vee \Big\{\Big\{W \vee Q)$ ..... True/False
16. $\neg\{[(P \vee T) \supset Q] \supset [(W \supset T) \supset R]\}$ ..... True/False

17. $S \supset \big)$ ..... True/False

18. $\neg(\vee\vee\, P \wedge W) \supset [(P \vee W) \vee W]$ ..... True/False

19. W ..... True/False

20. $T \supset Q\neg$ ..... True/False

21. $\neg\neg\{[(QW) \supset R] \wedge \neg R\}$ ..... True/False

22. $[(S \wedge R) \wedge (Q \supset R)] \supset [(Q \supset R) \wedge P]$ ..... True/False

23. R ..... True/False

24. $[(T \vee \neg S) \supset (T \vee T)] \vee \neg S$ ..... True/False

25. $)P$ ..... True/False

26. $\neg[(\neg W \vee \neg\Big)\Big)\Big) \vee (Q \supset S)]$ ..... True/False

27. $[R \vee (S \vee P)] \wedge [(S \wedge Q) \vee (TS)]$ ..... True/False

28. $\neg\neg W \vee [\neg R \vee (P\Big(T)]$ ..... True/False

29. $\neg\neg R$ ..... True/False

30. $\neg[\neg\neg(Q \vee W) \supset \neg W]$ ..... True/False

31. $\neg(T \vee R\Big[\ \vee [(Q \wedge S) \supset (W \vee T)]$ ..... True/False

32. $(W \wedge W) \vee \neg[(T \supset Q) \supset (T \supset T)]$ ..... True/False

33. $\neg\neg\Big[\Big[W$ ..... True/False

34. $\neg\{[(P \vee W) \supset (P \vee Q)] \vee (Q \wedge Q)\}$ ..... True/False

35. $S \vee S$ ..... True/False

36. $\{[W \vee (W \vee R)] \supset S\} \wedge [P \vee (R \wedge T)]$ ..... True/False

37. $\Big([(\neg P \supset Q) \supset S] \vee [(W \wedge T) \vee T]$ ..... True/False

38. $[(P \supset T) \wedge T] \vee [(T \supset R) \supset \neg Q]$ ..... True/False

39. $\neg[\neg S \wedge (W \vee S)] \supset \neg$ ..... True/False

40. $\neg\neg[\neg R \vee (\neg S \supset T \vee \vee]$ ..... True/False

41. $(\neg T \vee T) \vee \neg[(S \vee S) \supset S]$ ..... True/False

42. $\neg Q \supset \{[(P \supset P) \wedge (Q \vee T)] \wedge Q\}$ ..... True/False

43. $[(P \wedge Q) \supset (Q \supset W)] \vee [W \supset (Q \wedge T)]$ ..... True/False

44. $[\}\} \supset \neg(T \supset T)] \wedge [(W \supset S) \wedge T]$ ..... True/False

45. $\neg\big[S \supset (W \wedge \neg P)$ ..... True/False

46. $(\neg(K \wedge R)\big]$ ..... True/False

47. $\neg(R \supset R) \wedge [(P \wedge Q) \vee (Q \wedge Q)]$ ..... True/False

48. $[(R \wedge T) \supset (Q \supset R)] \wedge \neg T \supset T)$ ..... True/False

49. $\neg Q \vee$ ..... True/False

50. $\neg\neg S \wedge \neg[(S \supset S) \supset R]$ ..... True/False

51. $[(Q \vee T \supset (S \supset R)] \supset \neg(P \vee S)$ ..... True/False

52. $\neg\neg Q \supset \neg\neg \wedge\wedge Q$ ..... True/False

53. $\neg\{[(\neg S \wedge \neg Q) \vee P] \wedge Q\}$ ..... True/False

54. $[(S \vee P) \supset W] \wedge [(T \supset Q) \vee \Big\{\Big\{T \vee Q)]$ ..... True/False

55. $\neg\neg S \wedge [\neg T \supset (T \wedge W]$ ..... True/False

56. $\neg\{[\neg T \supset (W \wedge W)] \wedge (P \supset Q)\}$ ..... True/False

57. $\neg(Q \wedge S\Big] \wedge [\neg(S \wedge S) \supset Q]$ ..... True/False

58. $\neg\Big(\{[(\vee R) \wedge R] \wedge \neg T\} \wedge W\Big)$ ..... True/False

59. $\{[(Q \vee R) \wedge P] \supset (R \wedge T)\} \wedge \neg T$ ..... True/False

60. $(W \wedge P) \vee \{[(S \vee Q) \wedge R](Q \wedge P)\}$ ..... True/False

61. $[(Q \wedge S) \wedge T] \wedge \{[(P \vee \{\{) \supset S] \vee S\}$ ..... True/False

62. $\{[(S \supset R) \wedge R] \vee [S \vee (W \vee S)]\} \wedge Q$ ..... True/False

63. $[(W \wedge P) \vee Q] \wedge [\Big]R \wedge S) \wedge (R \wedge S)]$ ..... True/False

64. $[(W \wedge W) \wedge Q] \supset (\neg P \wedge \neg P)$ ..... True/False

65. $\neg\neg(T \vee S) \supset [(R \wedge R)\}T]$ ..... True/False

66. $\neg[(W \wedge P) \vee \neg W] \vee (Q \wedge T)$ ..... True/False

67. $\neg\{[(R \wedge R) \supset Q] \wedge [(R \vee T) \vee S]\}$ ..... True/False

68. $[(T \supset W) \wedge W] \supset [(Q \vee P) \supset (S \supset R)]$ ..... True/False

69. $\big)[(T \wedge R) \vee (S \wedge R)] \supset [(S \vee R) \supset P]$ ..... True/False

70. $\neg\{\neg P \wedge \neg[(R \wedge Q \vee P]\}$ ..... True/False

71. $\neg\neg W \wedge [(W \vee T \wedge\supset (Q \wedge W)]$ ..... True/False

72. $\{[(T \wedge S) \wedge Q] \wedge P\} \wedge W \supset (Q \supset Q)]$ ..... True/False

73. $WQQP$ ..... True/False

74. $[(R \vee Q) \vee (S \wedge W)] \supset [(P \supset W) \supset T]$ ..... True/False

75. $\neg$ ..... True/False

76. $(\neg P \vee S) \vee [(Q \vee S) \supset (P \vee P)]$ ..... True/False

77. $[\neg W \vee (T \supset Q)] \vee \neg(]] \wedge P)$ ..... True/False

78. $\neg(Q \supset S) \vee [\neg TQ(R \vee T)]$ ..... True/False

79. QR ..... True/False

80. $[W \vee (T \wedge Q)] \vee \neg\neg(W \vee T)$ ..... True/False

81. $\neg\{[Q \wedge (S \vee P)] \supset [(T \vee R) \wedge Q]\}$ ..... True/False

82. $\neg[(T \vee R) \wedge Q] \supset \neg(T \vee W)$ ..... True/False

83. $R \vee R$ ..... True/False

84. $[(S \vee W) \vee (W\neg P)] \wedge [(P \wedge S) \supset T]$ ..... True/False

85. $[\neg P \wedge (Q \supset T)] \supset [(S \vee T) \wedge S]$ ..... True/False

86. $\{[(Q \vee T) \wedge T] \wedge S\} \wedge \neg(S \supset R)$ ..... True/False

87. $[(P \wedge S) \vee (R \supset W)] \supset [(P \wedge R) \supset R]$ ..... True/False

88. $\{[(Q \vee R) \wedge] \vee (T \vee T)\} \vee (W \vee Q)$ ..... True/False

89. $[(R \vee Q) \supset \neg Q] \supset (\neg W \supset W)$ ..... True/False

90. $\neg[R \wedge (W \vee R)] \supset \neg(Q \vee R)$ ..... True/False

91. $[(Q \supset Q) \supset (S \supset S)] \supset [(P \wedge Q) \supset Q]$ ..... True/False

92. $\{[(W \wedge R) \supset T] \vee \neg S\} \supset (T \wedge P)$ ..... True/False

93. $\neg\{\Big](S \vee T) \wedge \neg P] \vee (S \supset T)\}$ ..... True/False

94. $[)W \vee W) \wedge (R \wedge R)] \vee [P \vee (S \supset T)]$ ..... True/False

95. $\neg\{[(S \supset S) \supset (P \wedge T)] \wedge (S \vee Q)\}$ ..... True/False

96. $[(\neg S \wedge S) \vee \neg Q] \vee \neg T$ ..... True/False

97. $[Q \vee (W \wedge S)] \supset [\neg R \wedge (W \vee Q]$ ..... True/False

98. $\neg\neg(\neg Q \supset \neg\neg T)$ ..... True/False

99. $\neg[(T \vee W) \wedge S] \vee [(W \wedge R) \vee [[]$ ..... True/False

100. $[S \vee (W \wedge S)] \wedge [\neg Q \wedge (T \vee R)]\Big($ ..... True/False