

Asağıdaki lojik ifadeleri boolean kuralları ile sadeleştiriniz.

① $A + A\bar{A}$

② $A + B + \bar{B}$

③ $A + B\bar{B}$

④ $A B\bar{B}$

⑤ $A(B + \bar{B})$

⑥ $X + \bar{X}Y$

⑦ $AB + \bar{A}BC$

⑧ $A + \bar{A}$

⑨ $A + \overline{\bar{A}B}$

⑩ $\overline{A(B + \bar{B})}$

⑪ $A\bar{A} + B\bar{B}$

⑫ $(A + \bar{A})B\bar{B}$

⑬ $A\bar{A} + AA + BB$

⑭ $A\bar{A} + AA + B\bar{B}$

⑮ $C\bar{C} + (A + \bar{A}) + (B + \bar{B}) + D$

⑯ $ABC + \overline{ABCD}$

⑰ $ABC\bar{B}D$

⑱ $AB + \overline{ABCD} + ABC\bar{D}C$

⑲ $C + BC$

⑳ $A(A + B)$

㉑ $\overline{A + B}$

㉒ \overline{AB}

㉓ $\overline{A + BC}$

㉔ $A(\bar{A} + \bar{B})$

㉕ $D + \bar{CD}$

㉖ $A(A + C)$

㉗ $A + AB$

㉘ $A + \bar{A}B$

㉙ $A(\bar{A} + B)$

㉚ $A + \bar{A}\bar{B}$

㉛ $A + \bar{A}\bar{B}\bar{C}$

㉜ $AB + \overline{(A + B)}$

㉝ $C + \bar{BC}$

㉞ $A\bar{B} + AB + C$

㉟ $(X + Z)(XY)$

㊱ $A + \bar{A}B + AB$

㊲ $A + AB + \bar{A}BC$

㊳ $A\bar{C} + ABC$

㊴ $(A + B)(A + C)$

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Aşağıdaki lojik ifadeleri booleen kuralları ile sadeleştiriniz.

$$(40) \bar{A}BC + \bar{A}$$

$$(41) A\bar{B}D + A\bar{B}\bar{D}$$

$$(42) (\bar{A}+B)(A+B)$$

$$(43) A(B+CD)$$

$$(44) AB + \bar{A}C + \bar{B}A$$

$$(45) A(\bar{A}+B) + A\bar{B}$$

$$(46) A+B(A+C)+AC$$

$$(47) AB + ABC$$

$$(48) A + \bar{A}\bar{B}C + BCD$$

$$(49) AB + BC(B+C)$$

$$(50) \overline{(A+B)C}$$

$$(51) \overline{A+B+C}$$

$$(52) \bar{A}\bar{B}\bar{C} + \bar{A}\bar{B}C + A\bar{B}\bar{C} + A\bar{B}C$$

$$(53) A + \bar{A}B + \bar{A}C + CD$$

$$(54) \bar{A}\bar{B}C + \bar{A}BC + A\bar{B}$$

$$(55) (\bar{A}+B)(A+C)(B+C)$$

$$(56) \bar{A}B + BC + AC$$

$$(57) \bar{A}B + A + AB$$

$$(58) AB + \bar{A}B + \bar{A}\bar{B}$$

$$(59) AB + \bar{A}\bar{B} + \bar{A}C + \bar{A}\bar{C}$$

$$(60) AB + A\bar{B}\bar{C} + A\bar{B}C + ABC$$

$$(61) AB(A+B)(B+B)$$

$$(62) AB + BC + AC$$

$$(63) ABC + A\bar{B}\bar{C} + \bar{A}B\bar{C}$$

$$(64) A\bar{C} + A\bar{B}\bar{C}$$

$$(65) A\bar{B}D + A\bar{B}\bar{D}$$

$$(66) C\overline{(A+B)} + D$$

$$(67) (\bar{A}+B)[\bar{A}(B+A)]$$

$$(68) ABC + A(\bar{B} + \bar{C})$$

$$(69) (A+C)(AD + A\bar{D}) + AC + C$$

(elobilyi.com)

Aşağıdaki lojik ifadeleri boolean kuralları ile sadeleştiriniz

$$(70) A(A+B) + (B+AA)(A+B)$$

$$(71) \bar{A}B(C+\bar{C}) + BC(A+\bar{A}) + \bar{A}C(B+\bar{B})$$

$$(72) \bar{A}BC + A\bar{B}C + AB\bar{C} + ABC$$

$$(73) ABC [ABC + \bar{C}(BC+AC)]$$

$$(74) ABC + A\bar{B}(\bar{A}\bar{C})$$

$$(75) ABC + A\bar{B}(\bar{A}\bar{C})$$

$$(76) \bar{A}\bar{B}(\overline{A+B}) \cdot C$$

$$(77) \bar{A}\bar{B} + \bar{C}A + \bar{C}B$$

$$(78) \overline{A+B} + \bar{C}$$

$$(79) (A+\bar{B}+\bar{C})(A+\bar{B}C)$$

$$(80) (\bar{A}+B+C)(\bar{B}+C+\bar{D})(\bar{A}+\bar{B}+\bar{C}+D)$$

$$(81) (\bar{A}+B)(\bar{B}C+B\bar{C})(A+C)(\bar{C}+A)$$

$$(82) \bar{B} + \bar{B}C + AB\bar{C}$$

$$(83) AB + B\bar{C} + \bar{B}C + \bar{A}B$$

$$(84) \overline{A(A+C)}$$

$$(85) \bar{A}(A+B) + (B+AA)(A+\bar{B})$$

$$(86) \bar{A}\bar{B}(\bar{A}+B)(\bar{B}+B)$$

$$(87) A\bar{B}C + B\bar{C}\bar{D} + ACD + A\bar{B}$$

$$(88) (A+B+\bar{C})(\bar{A}\bar{B}+C)$$

$$(89) (\bar{A}+B) [\bar{A}(B+A)]$$

$$(90) A\bar{B} + \bar{B}\bar{C} + \bar{A}\bar{C}$$

$$(91) \overline{AB + \bar{C}D}$$

$$(92) \overline{\bar{C}(A+B)}$$

$$(93) \overline{(\bar{A}+C)(B+\bar{D})}$$

$$(94) \overline{ABC} + \overline{(\bar{D}+E)}$$

$$(95) \overline{(\bar{A}+C)\bar{A}B}$$

Aşağıdaki lojik ifadeleri boolean kuralları ile sadeleştiriniz.

$$(96) \overline{\overline{AB} + A\overline{B}}$$

$$(97) \overline{(AB + \overline{C}) \cdot D}$$

$$(98) XZ + Z(\overline{X} + XY)$$

$$(99) DE + \overline{D} + \overline{E}$$

$$(100) \overline{A} + \overline{B} + \overline{A\overline{B}}$$

$$(101) AB + ABC + ABCD + ABCDE + ABCDEF$$

$$(102) \overline{AB} + AB + BC$$

$$(103) \overline{(A+BC)} + A(B+\overline{C})$$

$$(104) \overline{A}A\overline{C} + \overline{A}B\overline{C} + \overline{A}C\overline{C} + BA\overline{C} + BB\overline{C} + B\overline{C}\overline{C}$$

$$(105) \overline{B} [C(\overline{D} + E + C) + \overline{F}C]$$

$$(106) \overline{\overline{A+BC} + A\overline{B}}$$

$$(107) (A + \overline{B} + C) \overline{(AB + \overline{A}\overline{C})}$$

$$(108) \overline{(A+B+C) \cdot D}$$

$$(109) \overline{(AB+C)(A+BC)}$$

$$(110) \overline{(\overline{A+B}) + C \cdot D}$$

$$(111) XY + X(Y+Z) + Y(Y+Z)$$

$$(112) XY(\overline{X} + Y)(\overline{X} + X)$$

$$(113) [\overline{A\overline{B}}(C + \overline{B}D) + \overline{A\overline{B}}] \cdot C$$

$$(114) [\overline{A\overline{B}}(C + \overline{B}D) + \overline{A\overline{B}}] \cdot C$$

$$(115) \overline{(\overline{A\overline{B}} + \overline{A\overline{B}})} \cdot (A+B)$$

$$(116) \overline{\overline{(A+B)} + \overline{C}}$$

$$(117) \overline{(\overline{A\overline{B}}) \cdot (\overline{B} + C)}$$

$$(118) \overline{A+B+C} + \overline{\overline{D}E}$$

$$(119) \overline{(A+B)} + \overline{A}(B+C)$$

$$(120) \overline{(A+B)} \cdot \overline{C}(C+D)$$

$$(121) (\overline{A+B}) \cdot C + ABC$$

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Aşağıdaki lojik ifadeleri boolean kuralları ile sadeleştiriniz.

$$(122) \overline{AB+AC} + \overline{A}B\overline{C}$$

$$(123) (A+\overline{A})(AB+\overline{ABC})$$

$$(124) \overline{ABC}(BD+CDE)+A\overline{C}$$

$$(125) (B+BC)(B+\overline{BC})(B+D)$$

$$(126) [\overline{A}B(C+BD)+\overline{A}B]-C$$

$$(127) \overline{AB}+A(\overline{B+C})+B(\overline{B+C})$$

$$(128) \overline{ABC} + \overline{A}B\overline{C} + \overline{A}B\overline{C} + \overline{A}B\overline{C} + \overline{A}B\overline{C}$$

$$(129) \overline{ABC} + \overline{A}B\overline{C} + \overline{A}B\overline{C}$$

$$(130) ABC [AB+\overline{C}(BC+AC)]$$

$$(131) \overline{AB+AC} + \overline{A}B\overline{C}$$

$$(132) ABCD + \overline{A}B\overline{C} + \overline{A}B\overline{D} + \overline{A}C\overline{D} + \overline{B}C\overline{D}$$

$$(133) (AB+C)(\overline{B}D+\overline{C}E) + \overline{(AB+C)}$$

$$(134) [A+\overline{BC}+D+EF] [A+\overline{BC} + \overline{(D+EF)}]$$

$$(135) \overline{\overline{A+BC} + \overline{AB}}$$

$$(136) \overline{(A+B)} \overline{(C+D+E)} + \overline{(A+B)}$$

$$(137) \overline{\overline{AB} + \overline{CD} + EF}$$

$$(138) \overline{(A+B)\overline{CD} + E + \overline{F}}$$

$$(139) \overline{(A+B)} \cdot \overline{C}$$

$$(140) (\overline{A}+ABC)(A+\overline{C})$$

$$(141) \overline{\overline{A}B\overline{C}} + \overline{\overline{A}B\overline{C}} \cdot C + D$$

$$(142) AB+A(B+C)+B(B+C)$$

$$(143) \overline{\overline{A+B+C} + \overline{D+E+F}}$$

$$(144) \overline{A}B\overline{C} + A(C\overline{D}+\overline{B})$$