

Aşağıdaki 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  $A + \bar{\bar{A}}$

⑨  $A + \bar{\bar{A}B}$

⑩  $\bar{\bar{A}(B + \bar{B})}$

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  $ABC + \bar{A}BCD$

⑰  $AB\bar{C}\bar{B}D$

⑱  $AB + \bar{A}BCD + AB\bar{C}DC$

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  $D + \bar{C}D$

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  $C + \bar{B}C$

㉞  $A\bar{B} + AB + C$

㉟  $(X + Z)(XY)$

㊱  $A + \bar{A}B + AB$

㊲  $A + AB + A\bar{B}C$

㊳  $A\bar{C} + ABC$

㊴  $(A + B)(A + C)$

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Aşağıdaki lojik ifadeleri boolean kuralları ile sadeleştiriniz.

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

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

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

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

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

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

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

$$(47) AB + ABC$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(celobilgi.com)

Aşağıdaki lojik ifadeleri boolean kuralları ile sadeleştiriniz

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Aşağıdaki lojik ifadeleri boolean kuralları ile sadeleştiriniz.

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

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

$$(98) xz + z(\overline{x} + xy)$$

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

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

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

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

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

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

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

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

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

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

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

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

$$(111) xy + x(y + z) + y(y + z)$$

$$(112) xy(\overline{x} + y)(\overline{x} + x)$$

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

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

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

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

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

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

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

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

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



Aşağıdaki lojik ifadeleri boolean kuralları ile sadeleştiriniz.

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(135) \overline{\overline{A+B} + \overline{A} \overline{B}}$$

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

$$(137) \overline{A \overline{B} + \overline{C} D + EF}$$

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

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

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

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

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

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

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