



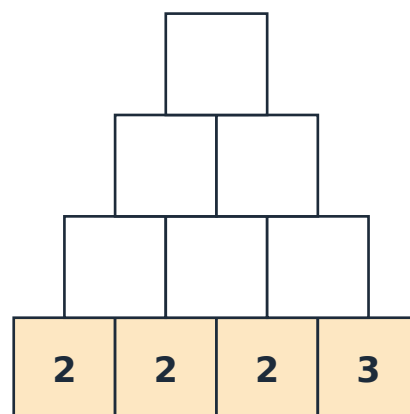
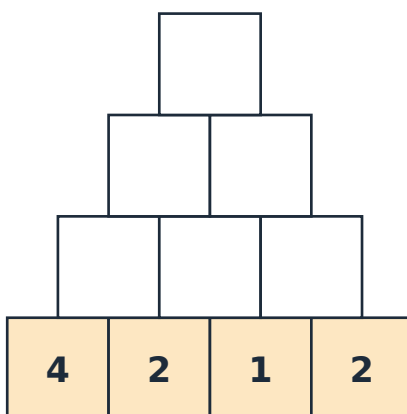
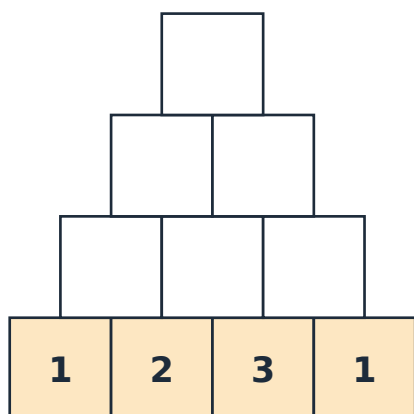
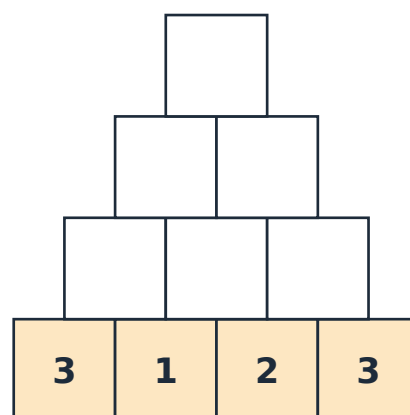
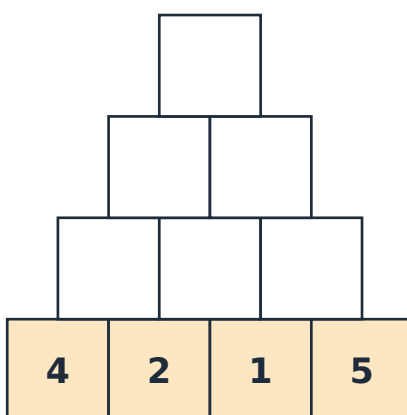
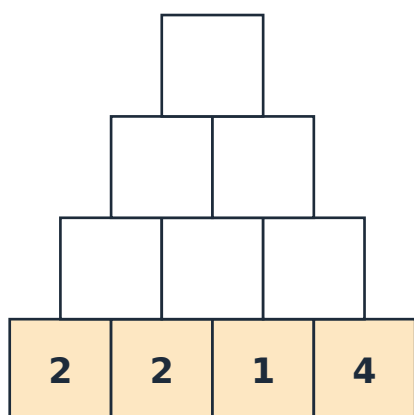
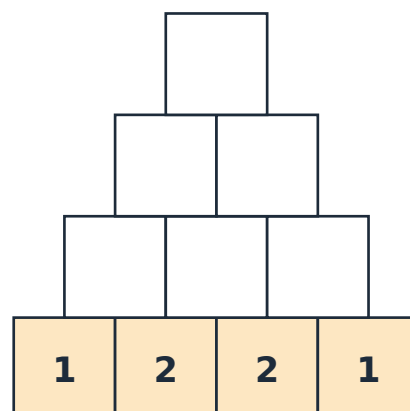
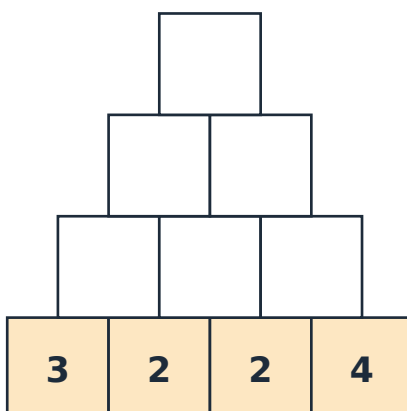
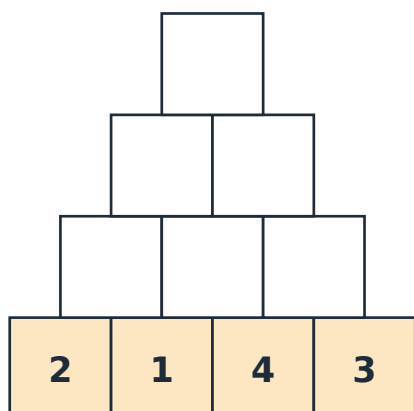
Piramidy i grafy

Dodawanie i odejmowanie w łamigłówkach

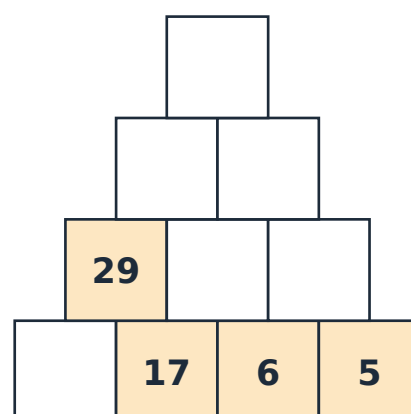
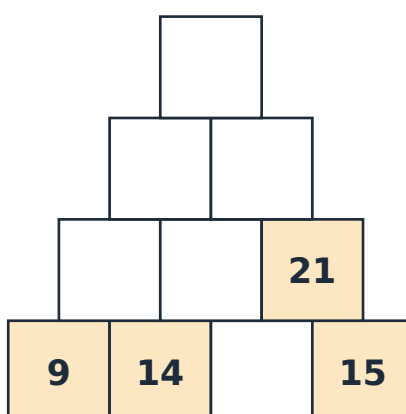
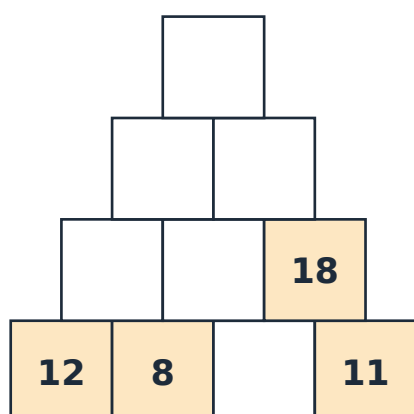
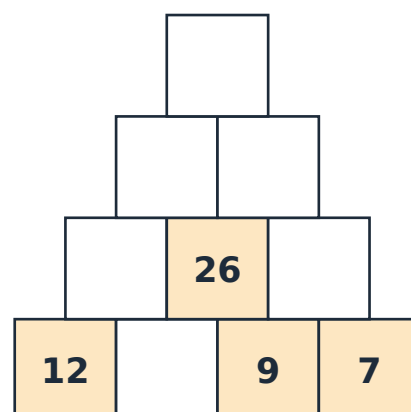
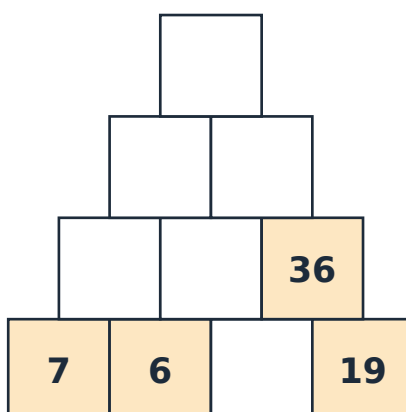
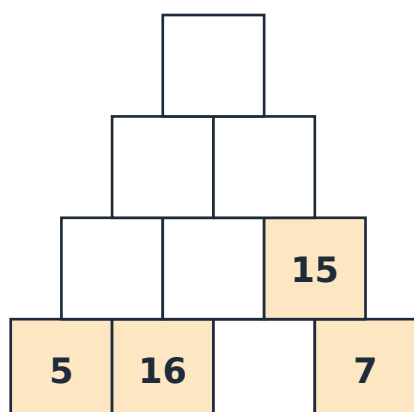
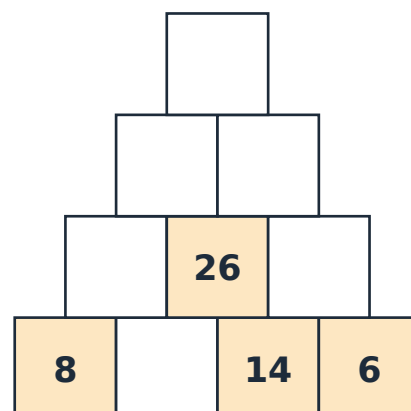
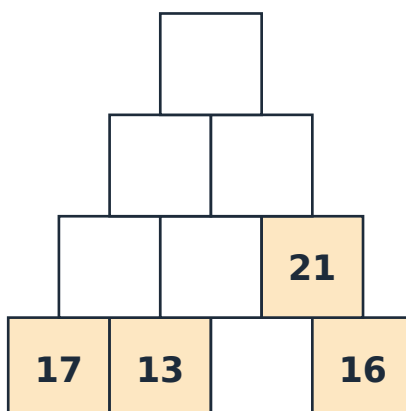
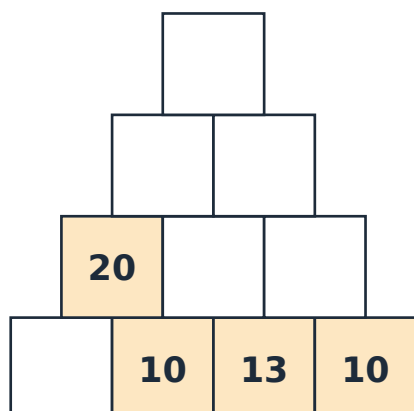
Piramida: każda cegła to suma dwóch cegieł pod nią. Graf: wykonuj kolejno działania na strzałkach.

Poziomy: do 20 (klasa 1) i do 100 (klasa 2-3). Klucz na końcu pliku.

Każda cegła to suma dwóch cegieł leżących pod nią. Uzupełnij piramidy.



Uzupełnij piramidy. Uwaga: w każdej brakuje też jednej dolnej cegły – oblicz ją odejmowaniem.



Wykonuj działania po kolei i wpisz wyniki w kółka.

$$\textcircled{36} \xrightarrow{-9} \textcircled{} \xrightarrow{+9} \textcircled{} \xrightarrow{+13} \textcircled{} \xrightarrow{+5} \textcircled{}$$

$$\textcircled{24} \xrightarrow{+3} \textcircled{} \xrightarrow{+8} \textcircled{} \xrightarrow{+15} \textcircled{} \xrightarrow{+15} \textcircled{}$$

$$\textcircled{19} \xrightarrow{-4} \textcircled{} \xrightarrow{+3} \textcircled{} \xrightarrow{+15} \textcircled{} \xrightarrow{+9} \textcircled{}$$

$$\textcircled{16} \xrightarrow{-15} \textcircled{} \xrightarrow{+10} \textcircled{} \xrightarrow{-7} \textcircled{} \xrightarrow{+5} \textcircled{}$$

$$\textcircled{31} \xrightarrow{-10} \textcircled{} \xrightarrow{+12} \textcircled{} \xrightarrow{+8} \textcircled{} \xrightarrow{+6} \textcircled{}$$

$$\textcircled{33} \xrightarrow{-12} \textcircled{} \xrightarrow{+12} \textcircled{} \xrightarrow{-8} \textcircled{} \xrightarrow{+6} \textcircled{}$$

$$\textcircled{22} \xrightarrow{-3} \textcircled{} \xrightarrow{+5} \textcircled{} \xrightarrow{+9} \textcircled{} \xrightarrow{-3} \textcircled{}$$

$$\textcircled{16} \xrightarrow{+10} \textcircled{} \xrightarrow{+13} \textcircled{} \xrightarrow{-9} \textcircled{} \xrightarrow{+8} \textcircled{}$$

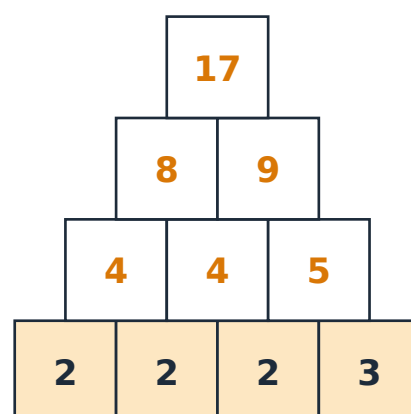
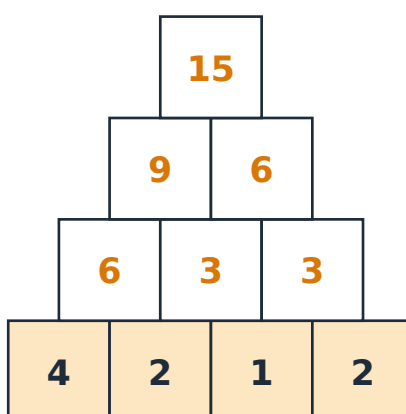
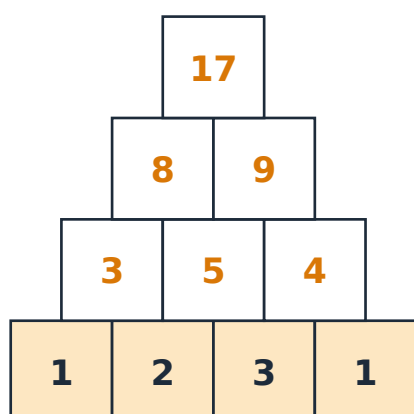
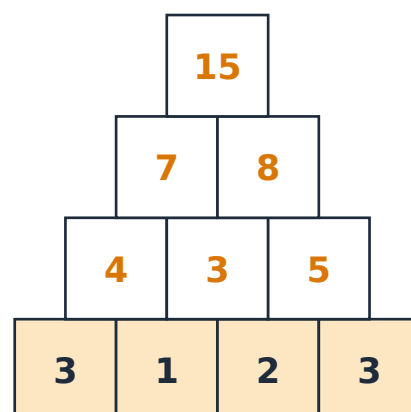
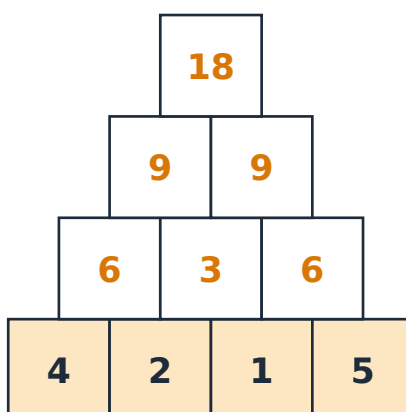
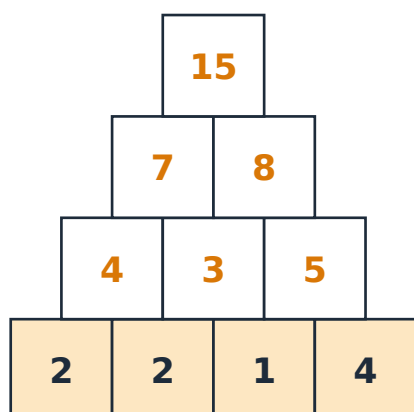
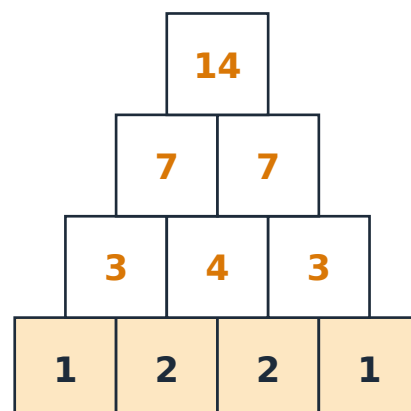
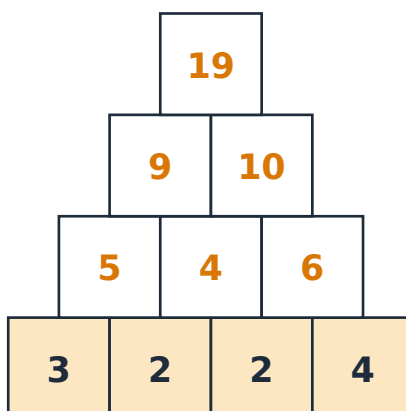
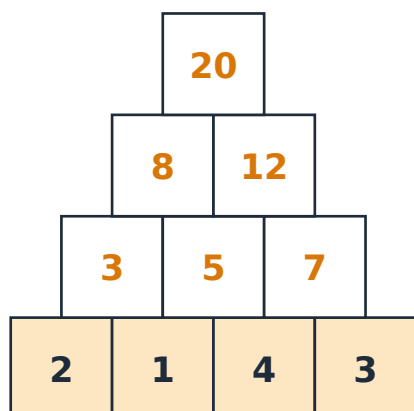
$$\textcircled{20} \xrightarrow{-12} \textcircled{} \xrightarrow{+15} \textcircled{} \xrightarrow{-10} \textcircled{} \xrightarrow{+13} \textcircled{}$$

$$\textcircled{30} \xrightarrow{-3} \textcircled{} \xrightarrow{-15} \textcircled{} \xrightarrow{+12} \textcircled{} \xrightarrow{-4} \textcircled{}$$

$$\textcircled{8} \xrightarrow{+10} \textcircled{} \xrightarrow{-10} \textcircled{} \xrightarrow{+13} \textcircled{} \xrightarrow{+12} \textcircled{}$$

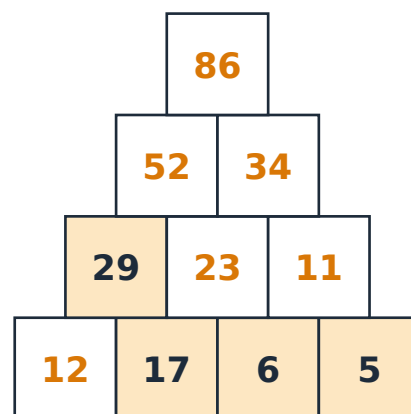
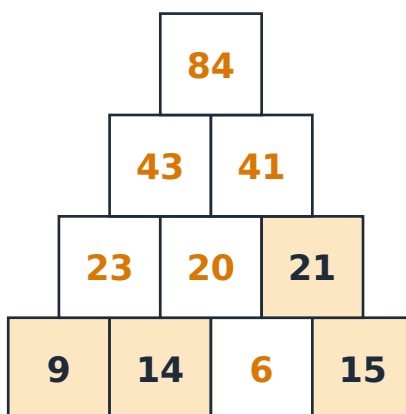
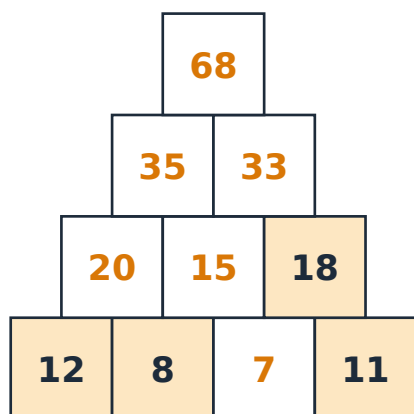
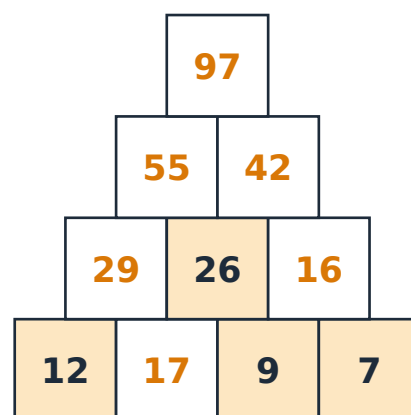
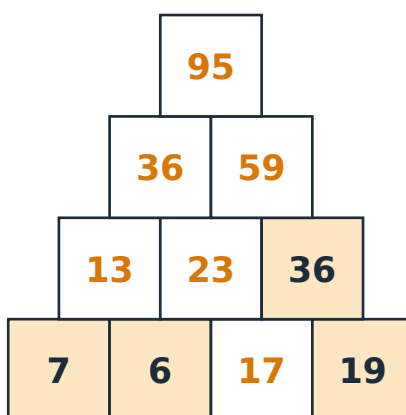
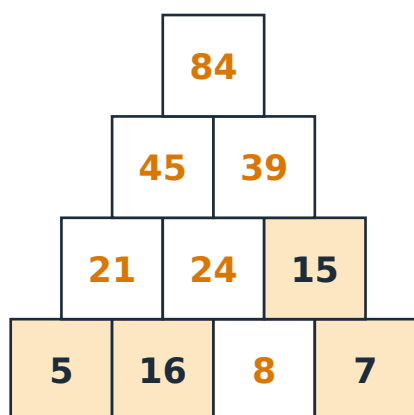
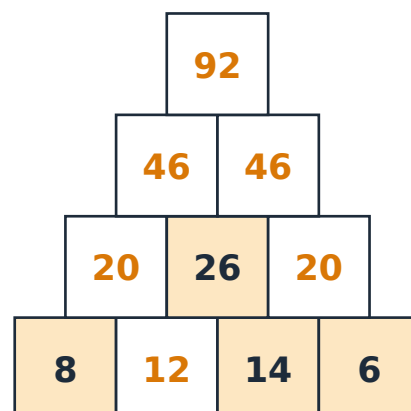
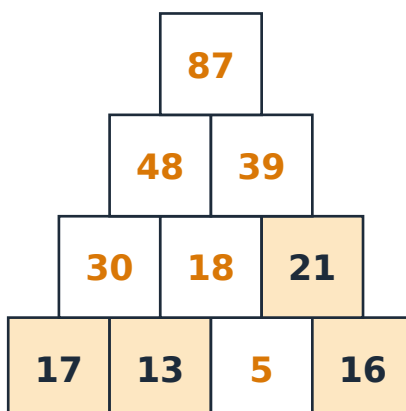
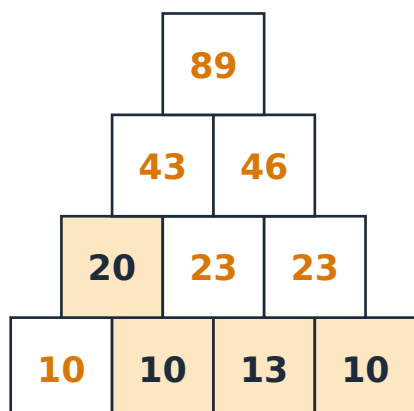
Klucz: Piramidy do 20

Każda cegła to suma dwóch cegieł leżących pod nią. Uzupełnij piramidy.



Klucz: Piramidy do 100

Uzupełnij piramidy. Uwaga: w każdej brakuje też jednej dolnej cegły – oblicz ją odejmowaniem.



Klucz: Grafy - łańcuszki działań

Wykonuj działania po kolei i wpisz wyniki w kółka.

$$36 \xrightarrow{-9} 27 \xrightarrow{+9} 36 \xrightarrow{+13} 49 \xrightarrow{+5} 54$$

$$24 \xrightarrow{+3} 27 \xrightarrow{+8} 35 \xrightarrow{+15} 50 \xrightarrow{+15} 65$$

$$19 \xrightarrow{-4} 15 \xrightarrow{+3} 18 \xrightarrow{+15} 33 \xrightarrow{+9} 42$$

$$16 \xrightarrow{-15} 1 \xrightarrow{+10} 11 \xrightarrow{-7} 4 \xrightarrow{+5} 9$$

$$31 \xrightarrow{-10} 21 \xrightarrow{+12} 33 \xrightarrow{+8} 41 \xrightarrow{+6} 47$$

$$33 \xrightarrow{-12} 21 \xrightarrow{+12} 33 \xrightarrow{-8} 25 \xrightarrow{+6} 31$$

$$22 \xrightarrow{-3} 19 \xrightarrow{+5} 24 \xrightarrow{+9} 33 \xrightarrow{-3} 30$$

$$16 \xrightarrow{+10} 26 \xrightarrow{+13} 39 \xrightarrow{-9} 30 \xrightarrow{+8} 38$$

$$20 \xrightarrow{-12} 8 \xrightarrow{+15} 23 \xrightarrow{-10} 13 \xrightarrow{+13} 26$$

$$30 \xrightarrow{-3} 27 \xrightarrow{-15} 12 \xrightarrow{+12} 24 \xrightarrow{-4} 20$$

$$8 \xrightarrow{+10} 18 \xrightarrow{-10} 8 \xrightarrow{+13} 21 \xrightarrow{+12} 33$$