One Dimension

Set constants

Discretise time and space  
Create x,t array to store function values over time with all values = 0

Set the heat source to the desired value

For length of t array

For length of x array

Calculate next value of the heat function

Plot graph of heat at desired time

Two Dimensions

Set constants

Discretise time and space  
Create x,y,t array to store function values over time with all values = 0

Set the heat source to the desired value

For length of t array

For length of x array

For length of y array

Calculate the next value of the heat function

Plot surface graph of heat at desired time