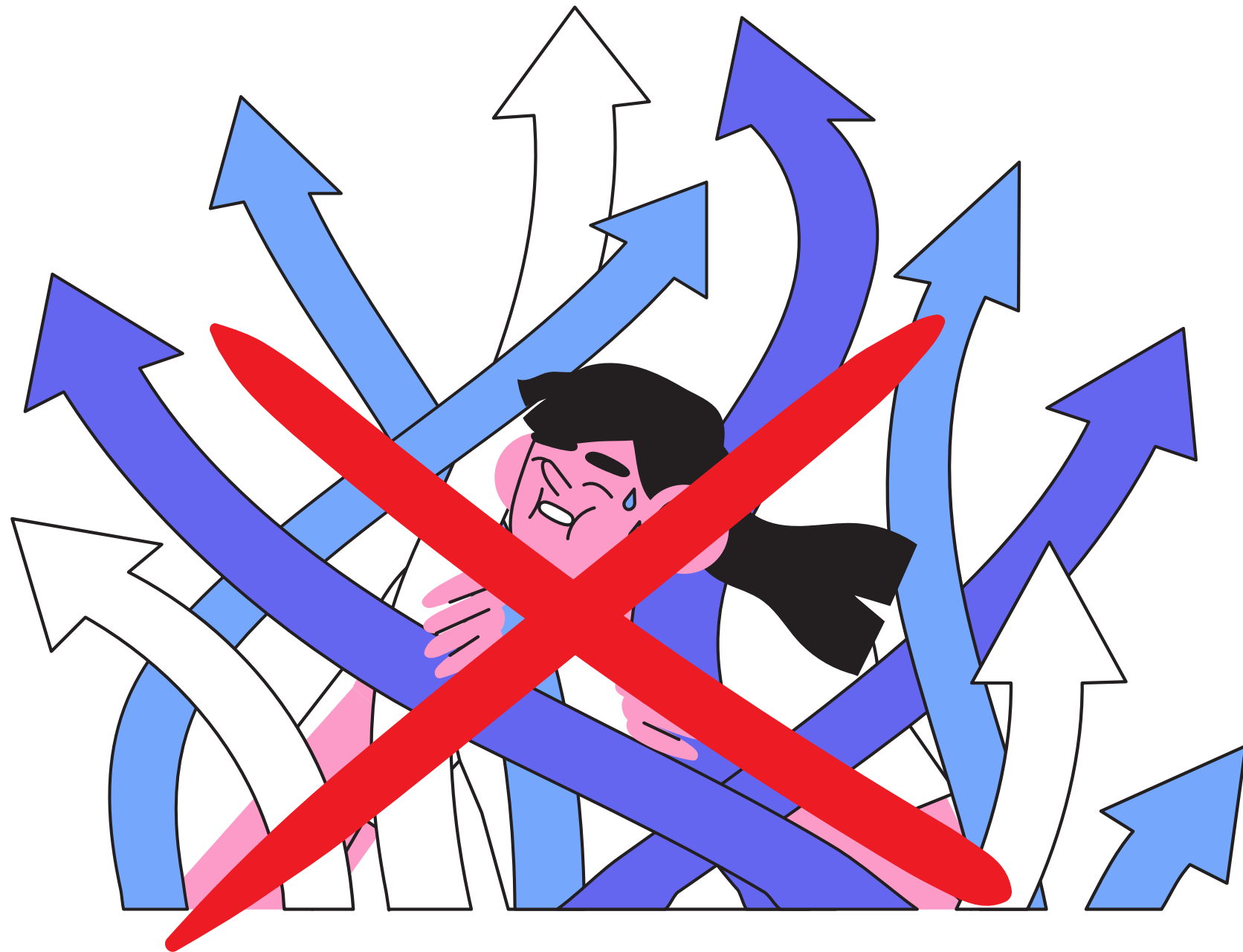


GREEDY BEST-FIRST SEARCH

$$f(x) = h(x)$$

Uses Heuristic function

heuristic function is a method that estimates the cost or distance from a given state to the goal state, providing guidance for more efficient decision-making in search processes.



GREEDY BEST-FIRST SEARCH



**whats
special?**

**we got
the information, bruh.
so no need to wander.**



Best-first search {

closed list = []

open list = [start node]

do {

 if open list is empty then{

 return no solution

 }

 n = heuristic best node

 if n == final node then {

 return path from start to goal node

 }

 foreach direct available node do{

 if node not in open and not in closed list do {

 add node to open list

 set n as his parent node

 }

 delete n from open list

 add n to closed list

 } while (open list is not empty)

}

GREEDY BFS



Open list
Closed list

we need these two
list to implement
our BFS

GREEDY BFS



Open list

Closed list

C(10)

GREEDY BFS



Open list

K(9)

Closed list

C(10)

GREEDY BFS



Open list

S(8)

CU(12)

Closed list

C(10)

K(9)

GREEDY BFS



Open list

T(7)

CU(12)

Closed list

C(10)

K(9)

S(8)

GREEDY BFS



Open list

D(6)

CU(12)

Closed list

C(10)

K(9)

S(8)

T(7)

GREEDY BFS



Open list

M(0)

CU(12)

Closed list

C(10)

K(9)

S(8)

T(7)

D(6)

GREEDY BFS



Open list
CU(12)

Closed list
C(10)
K(9)
S(8)
T(7)
D(6)
M(0)

we reached Madurai.
so we can stop

GREEDY BFS



Open list Closed list
CU(12)

C(10)

K(9)

S(8)

T(7)

D(6)

M(0)

Best path:

Chennai-> Kancheepuram

-> Salem -> Tanjavur ->

Dindigul -> Madurai