**[Example: Search Printer Objects](https://klipper.discourse.group/t/example-search-printer-objects/164)**

This macro will allow you to type SEARCH\_VARS S={some word} from the terminal and  
it will respond with all of the matching items in the printer object.

Say I wanted to know what the name and path of for the value of the currently loaded bed  
mesh. I could do type search\_vars s=profile in my terminal and it will respond with  
any items containing the word ‘profile’.

$ SEARCH\_VARS s="profile"

// printer.bed\_mesh.profile\_name : **default**

Additionally, omitting the “s” parameter will just dump out literally everything and probably catch fire.  
You have been warned.

[gcode\_macro SEARCH\_VARS]

gcode:

{% set search = params.S|lower %}

{% set ns = namespace() %}

{% **for** item **in** printer %}

{% **if** ' ' **in** item %}

{% set ns.path = ['printer', "['%s']" % (item), ''] %}

{% **else** %}

{% set ns.path = ['printer.', item, ''] %}

{% endif %}

{% **if** search **in** ns.path|lower %}

{ action\_respond\_info(ns.path|join) }

{% endif %}

{% **if** printer[item].items() %}

{% **for** childkey, child **in** printer[item].items() recursive %}

{% set ns.path = ns.path[:loop.depth|int + 1] %}

{% **if** ' ' **in** childkey %}

{% set null = ns.path.append("['%s']" % (childkey)) %}

{% **else** %}

{% set null = ns.path.append(".%s" % (childkey)) %}

{% endif %}

{% **if** child is mapping %}

{ loop(child.items()) }

{% **else** %}

{% **if** search **in** ns.path|lower %}

{ action\_respond\_info("%s : %s" % (ns.path|join, child)) }

{% endif %}

{% endif %}

{% endfor %}

{% endif %}

{% endfor %}