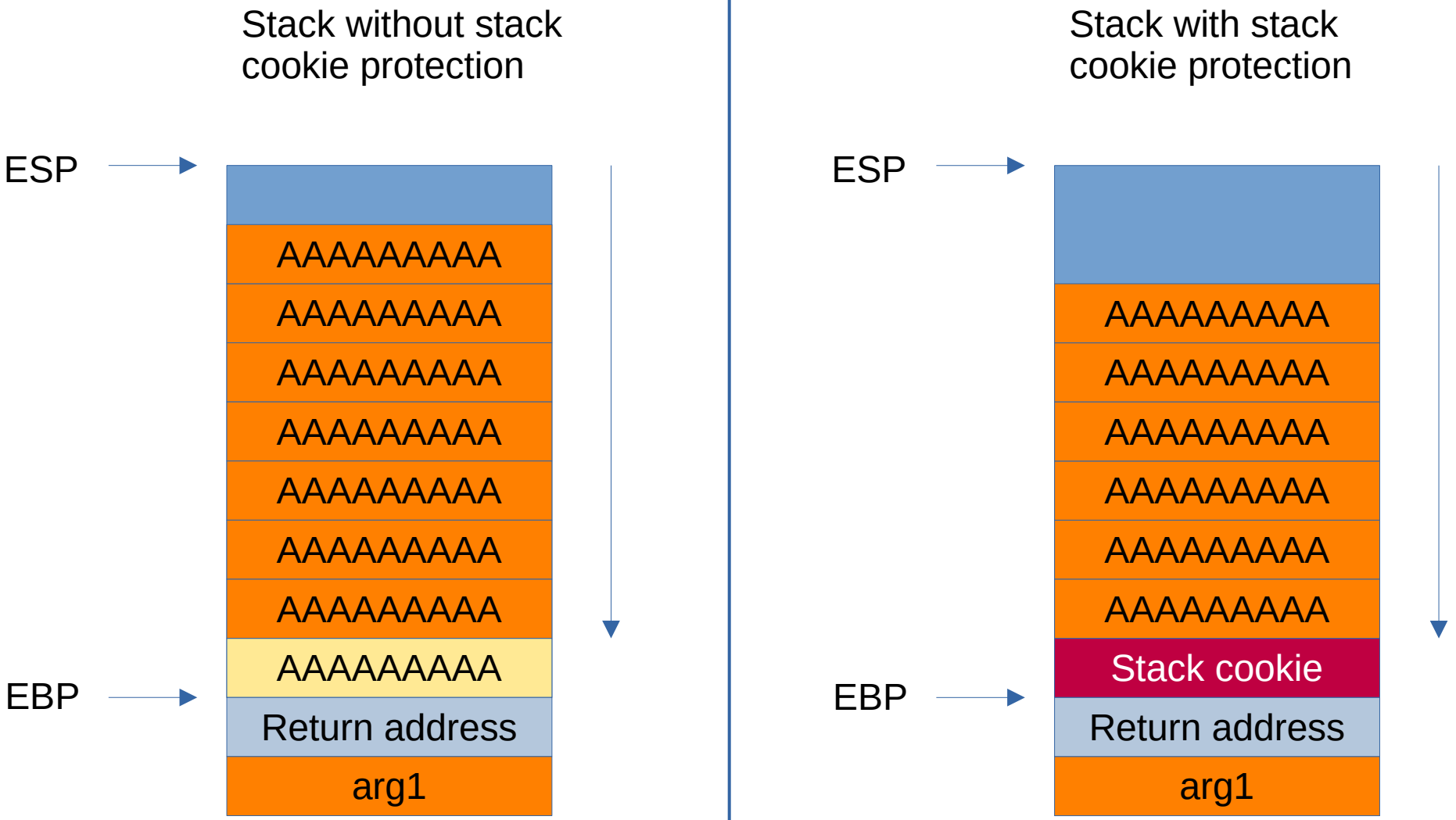
What is stack cookie () protection ?

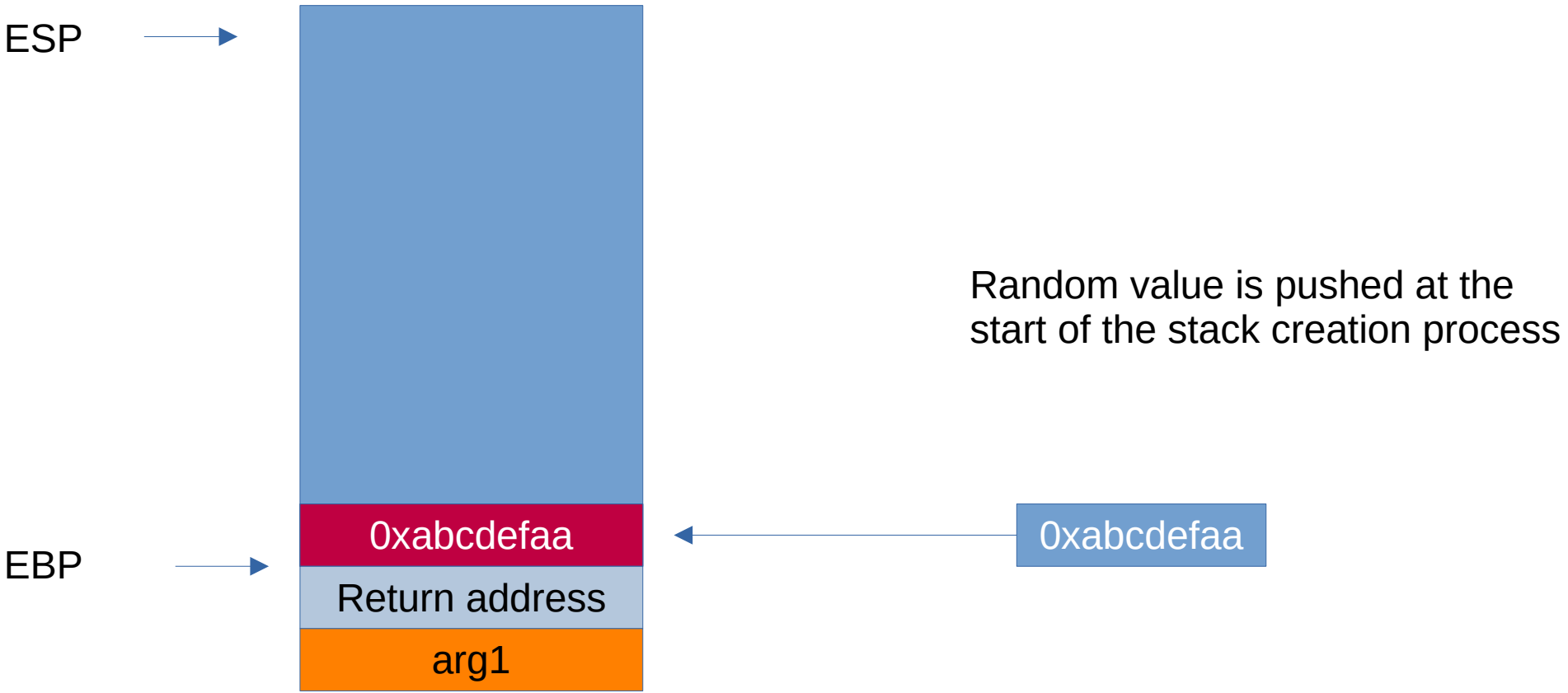
=>This is exploit protection mechanism for stack

=> Also know as stack canary,stack protector,stack guard

```
user@linux$ gcc -fno-stack-protector <input.c> -o <output>
```

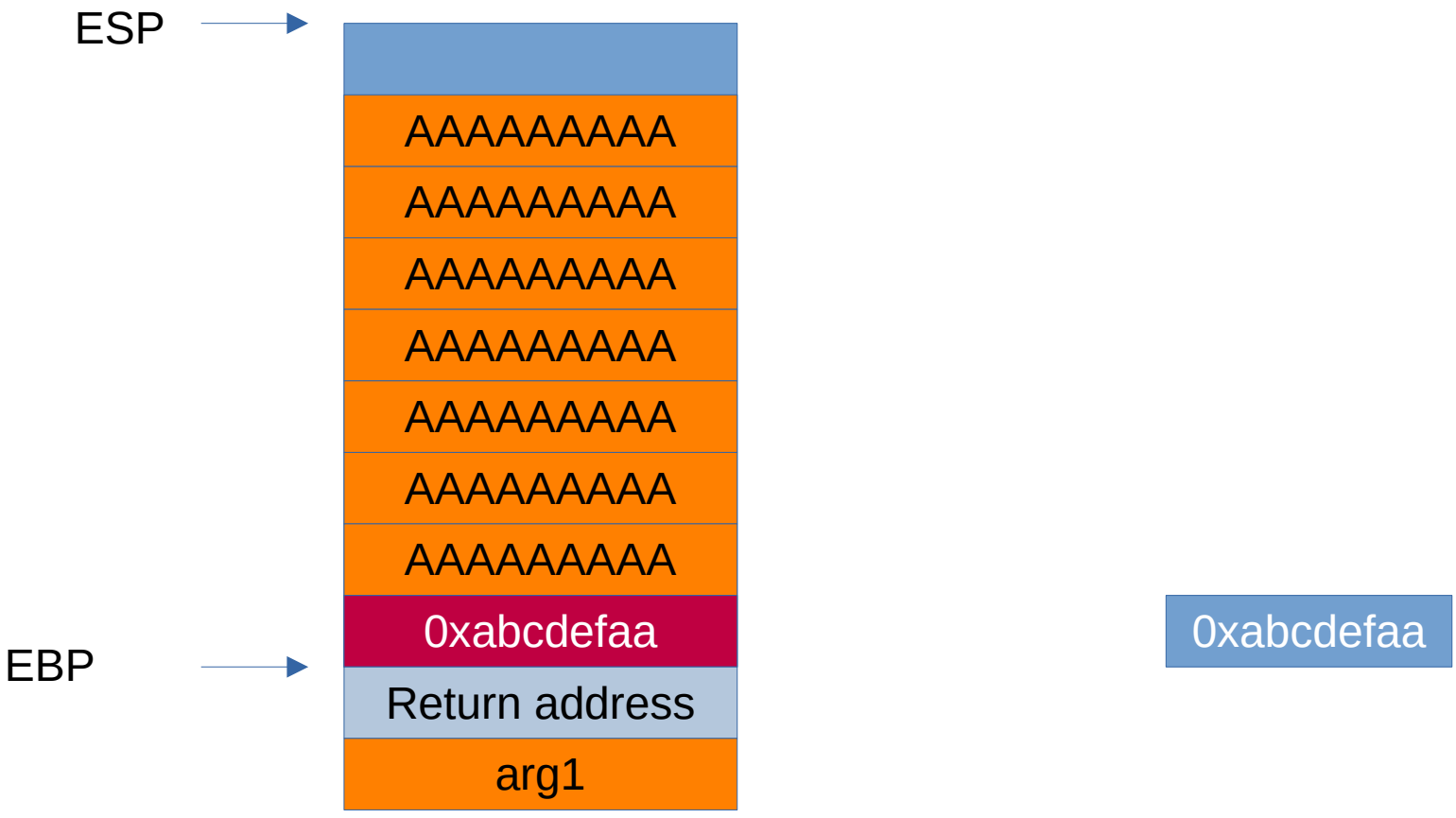


Stack creation with
stack cookie protection

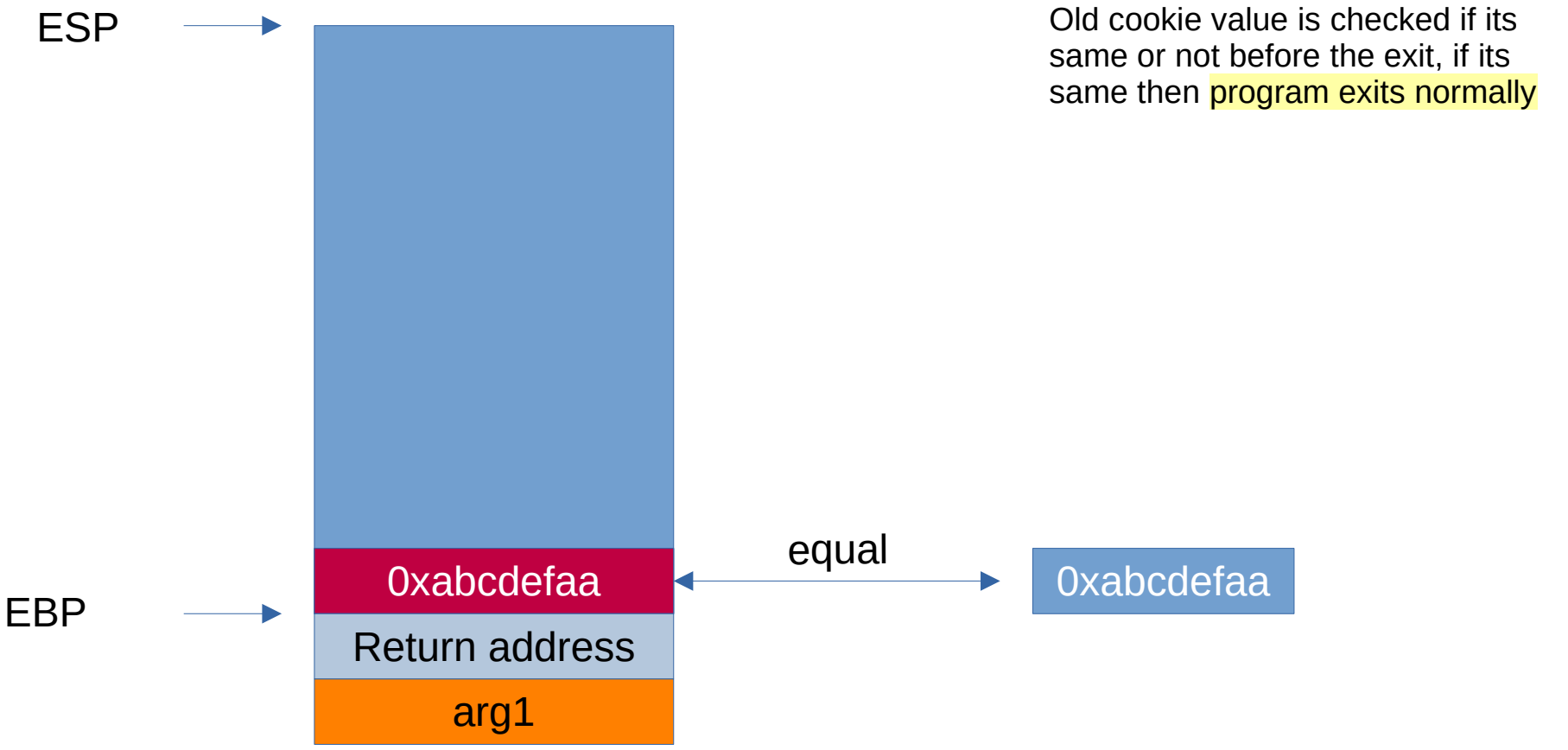


Random value is pushed at the
start of the stack creation process

Stack with input buffer

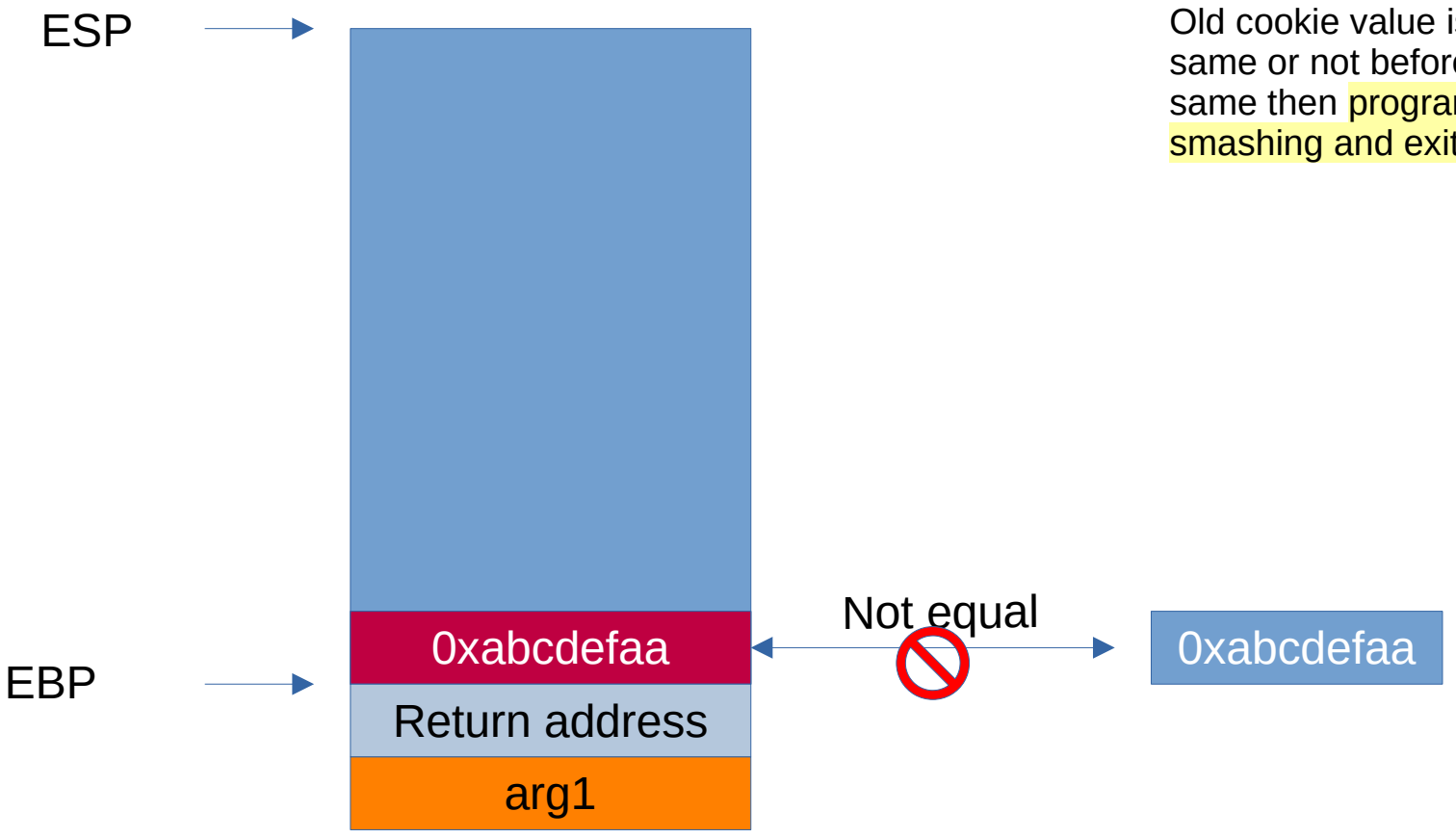


Stack with stack cookie protection



Old cookie value is checked if its same or not before the exit, if its same then program exits normally

Stack with stack cookie protection



Old cookie value is checked if its same or not before the exit, if its not same then program detects stack smashing and exits immediately