|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| BP on | Variable on | Variable | Scope | Allocation | Address | Value |
| **28** | **25** | **ARGUMENTS** | **Global** | **Program** | **0x5555555877f0** | **2** |
| **28** | **27** | **argc in main** | **Function** | **Stack** | **0x7fffffffdeac** | **2** |
| **28** | **27** | **argv in main** | **Function** | **Stack** | **0x7fffffffdea0** | **0x7fffffffe4b8** |
|  |  | **argv[0]** | **Function** | **Stack** | **0x7ffffffffe4b8** | “home/bbo267/CS216/Lab10/Lab10” |
|  |  | **argv[1]** | **Function** | **Stack** | **0x7fffffffe4c0** | "actor\_movies.txt" |
| **54** | **52** | **cs216\_imdb** | **Function** | **Stack** | **0x7fffffffdf30** | {movies\_db = std::map with 0 elements,  actors\_db = std::map with 0 elements} |
| **94** | **89** | **inputname** | **Function** | **Stack** | **0x7fffffffdfd0** | "Jack Black" |
| **97** | **94** | **validName** | **Function** | **Stack** | 0x7fffffffdff0 | {str = “Jack Black”} |
| BP on 97, step into, while calling toLower() | | | | | | |
| **34** | **34** | **this->str in toLower()** | **Function** | **Stack** | **0x7ffffffdff0** | **“Jack Black”** |
| **37** | **36** | **result in toLower()** | **Function** | **Stack** | **0x7ffffffe030** | **“Jack Black”** |
| **38** | **36** | **result in toLower()** | **Function** | **Stack** | **0x7fffffffe030** | **“jack black”** |
| 112 | 109 | movies\_of\_actor | Function | Stack | **0x7fffffffded0** | std::set with 6 elements = {[0] = "Cable Guy, The (1996)", [1] = "High Fidelity (2000)",  [2] = "NeverEnding Story III, The (1994)", [3] = "Saving Silverman (2001)", [4] = "School of Rock (2003)",  [5] = "Shallow Hal (2001)"} |
| BP on 113, step into, while calling toUpper() | | | | | | |
| **48** | **46** | **fcount in toUpper()** | **Static** | **Program** | **0x5555557a069c** | **0** |
| **48** | **44** | **this->str in toUpper()** | **Function** | **Stack** | **0x7fffffffdff0** | "Jack Black" |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | **0x7fffffffde30** | **“ack Black”** |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | **0x7fffffffdd60** | **“ck Black”** |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | **0x7fffffffdc90** | **“k Black”** |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | **0x7fffffffdbc0** | **“ Black”** |
|  | | | | | | |
| 118 | 117 | \*i | Function | Stack | 0x7fffffffde68 | "Cable Guy, The (1996)" |
| 118 | 117 | \*i | Function | Stack | 0x7fffffffde68 | "High Fidelity (2000)" |
| 118 | 117 | \*i | Function | Stack | 0x7fffffffde68 | "NeverEnding Story III, The (1994)" |
| 118 | 117 | \*i | Function | Stack | 0x7fffffffde68 | "Saving Silverman (2001)" |
|  | | | | | | |