|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| BP on | Variable on | Variable | Scope | Allocation | Address | Value |
| **27** | **25** | **ARGUMENTS** | **Global** | **Program** | **0x555555587cf0** | **2** |
| **28** | **27** | **argc in main** | **Function** | **Stack** | **0x7fffffffda4c** | **2** |
| **28** | **27** | **argv in main** | **Function** | **Stack** | **0x7fffffffdad0** | **0x7fffffffe058** |
|  |  | **argv[0]** | **Function** | **Stack** | **0x7fffffffe058** | "/home/robert/Documents/CS216/Lab7/Lab7" |
|  |  | **argv[1]** | **Function** | **Stack** | **0x7fffffffe060** | "PA1\_imdb.txt" |
| **53** | **51** | **cs216\_imdb** | **Function** | **Stack** | **0x7fffffffdad0** | {movies\_db = std::map with 0 elements,  actors\_db = std::map with 0 elements} |
| **93** | **88** | **inputname** | **Function** | **Stack** | **0x7fffffffdb70** | "\ttoM\t hanKS" |
| **96** | **93** | **validName** | **Function** | **Stack** | 0x7fffffffdb90 | "toM hanKS" |
| BP on 96, step into, while calling toLower() | | | | | | |
| **34** | **34** | **this->str in toLower()** | **Function** | **Stack** | **0x7fffffffdb90** | **"toM hanKS"** |
| **37** | **36** | **result in toLower()** | **Function** | **Stack** | **0x7fffffffdbd0** | **"toM hanKS"** |
| **38** | **36** | **result in toLower()** | **Function** | **Stack** | **0x7fffffffdbd0** | **"tom hanks"** |
| 111 | 108 | Movies\_of\_actor | Function | Stack | **0x7fffffffda70** | std::set with 4 elements = {[0] = "Catch Me If You Can",  [1] = "Saving Private Ryan", [2] = "Sleepless in Seattle",  [3] = "You Have Got Mail"} |
| BP on 112, step into, while calling toUpper() | | | | | | |
| **48** | **46** | **fcount in toUpper** | **Static** | **Program** | **0x5555557a169c** | **1** |
| **44** | **44** | **this->str in toUpper()** | **Function** | **Stack** | **0x7fffffffdb90** | **"toM hanKS"** |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | **0x7fffffffd9d0** | **{str = "oM hanKS"}** |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | **0x7fffffffd900** | **{str = "M hanKS"}** |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | **0x7fffffffd830** | **{str = " hanKS"}** |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | **0x7fffffffd760** | **"hanKS"}** |
| **61** | **60** | **part in toUpper()** | **Function** | **Stack** | 0x7fffffffd690 | **{str = "anKS"}** |
|  | | | | | | |
| 117 | 116 | \*i | Function | Stack | 0x7fffffffde50 | **"catch me if you can"** |
| 117 | 116 | \*i | Function | Stack | 0x7fffffffde50 | **"saving private ryan"** |
| 117 | 116 | \*i | Function | Stack | 0x7fffffffde50 | **"sleepless in seattle"** |
| 117 | 116 | \*i | Function | Stack | 0x7fffffffde50 | **"you have got mail"** |