AFTER ALL STEPS: PROGRAM 1 SAMPLE OUTPUT

CSC 1310-001, SPRING 2025

This is the sample output after completing ALL FIVE STEPS in the assignment instructions. Refer to "Program 1 Sample Output.pdf" to see the sample output after STEP ONE only.

Note: Before running the program, I added a copy of American Truck Simulator and Mortal Kombat 11 to games-list.txt to make sure duplicate games couldn't be added from the file. Also, after running the program, I realized that I already had one duplicate in the file – NARAKA: BLADEPOINT.

Note: All user input is highlighted in <mark>yellow</mark>.

SAMPLE OUTPUT

```
**********STEAM GAME DATABASE **********

First, adding all the games from games-list.txt.

Duplicate game "NARAKA: BLADEPOINT" found in file. Skipping entry.
Duplicate game "American Truck Simulator" found in file. Skipping entry.
Duplicate game "Mortal Kombat 11" found in file. Skipping entry.
65 games were added from games-list.txt.


SELECT FROM THE FOLLOWING CHOICES:
1. Print all games
2. Print game names
3. Print games in a particular genre
4. Print games over a rating percentage
5. Add a new game
6. Delete a game
7. Exit
CHOOSE 1-7: 2

Game Names:
1. Hogwarts Legacy
2. The Lord of the Rings: Return from Moria
3. Palworld
4. Warhammer 40000: Space Marine 2
5. Black Myth: Wukong
6. ELDEN RING
7. Call of Duty
8. HELLDIVERS 2
9. Lost Ark
10. NARAKA: BLADEPOINT
11. Sons Of The Forest
12. Forza Horizon 5
13. Yu-Gi-Oh! Master Duel
14. Valheim
15. New World: Aeternum
16. Ready or Not
17. Starfield
18. Total War: WARHAMMER III
19. It Takes Two
20. Battlefield 2042
21. Path of Exile 2
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22. EA SPORTS FC 24
23. Lethal Company
24. Among Us
25. The First Descendant
26. Dragon's Dogma 2
27. Dying Light 2 Stay Human: Reloaded Edition
28. Resident Evil 4
29. Indiana Jones and the Great Circle
30. THRONE AND LIBERTY
31. EA SPORTS FC 25
32. Call of Duty: Black Ops 6
33. STAR WARS Jedi: Survivor
34. V Rising
35. Age of Empires IV: Anniversary Edition
36. Marvel's Spider-Man Remastered
37. Street Fighter 6
38. Farming Simulator 22
39. ARMORED CORE VI FIRES OF RUBICON
40. MONSTER HUNTER RISE
41. God of War
42. Sonic X Shadow Generations
43. Manor Lords
44. ARK: Survival Ascended
45. DRAGON BALL: Sparking! ZERO
46. S.T.A.L.K.E.R. 2: Heart of Chornobyl
47. Enshrouded
48. Marvel Rivals
49. Granblue Fantasy: Relink
50. Once Human
51. REMNANT II
52. DAVE THE DIVER
53. Ghost of Tsushima DIRECTOR'S CUT
54. Planet Coaster
55. Sid Meier's Civilization VII
56. Raft
57. Humankind
58. Jurassic World Evolution 2
59. Pummel Party
60. The Jackbox Party Pack 10
61. The Talos Principle 2
62. Mortal Kombat 11
63. Pizza Tower
64. Cities: Skylines
65. American Truck Simulator


SELECT FROM THE FOLLOWING CHOICES:
1. Print all games
2. Print game names
3. Print games in a particular genre
4. Print games over a rating percentage
5. Add a new game
6. Delete a game
7. Exit
CHOOSE 1-7: 4
Enter the minimum review percentage (e.g., 75 for 75%): 90

Games with review scores higher than 90.00%:
------------------------
Hogwarts Legacy
Review Score: 91.00%
------------------------
Palworld
Review Score: 94.00%
------------------------
Black Myth: Wukong
Review Score: 97.00%
------------------------
ELDEN RING
Review Score: 93.00%
------------------------
Valheim
Review Score: 94.00%
------------------------
Total War: WARHAMMER III
Review Score: 725.00%
------------------------
It Takes Two
```

Obviously a data-entry error prior to validating that the percentage must be between 0 and 100%

Review Score: 95.00%

Lethal Company
Review Score: 97.00%

Among Us
Review Score: 92.00%

Resident Evil 4
Review Score: 98.00%

Indiana Jones and the Great Circle
Review Score: 92.00%

Marvel's Spider-Man Remastered
Review Score: 96.00%

Farming Simulator 22
Review Score: 92.00%

ARMORED CORE VI FIRES OF RUBICON
Review Score: 91.00%

God of War
Review Score: 96.00%

Sonic X Shadow Generations
Review Score: 98.00%

DAVE THE DIVER
Review Score: 97.00%

Ghost of Tsushima DIRECTOR'S CUT
Review Score: 94.00%

Planet Coaster
Review Score: 91.00%

Raft
Review Score: 93.00%

The Talos Principle 2
Review Score: 96.00%

Pizza Tower
Review Score: 98.00%

Cities: Skylines
Review Score: 93.00%

American Truck Simulator
Review Score: 97.00%

SELECT FROM THE FOLLOWING CHOICES:
1. Print all games
2. Print game names
3. Print games in a particular genre
4. Print games over a rating percentage
5. Add a new game
6. Delete a game
7. Exit
CHOOSE 1-7: `4`
Enter the minimum review percentage (e.g., 75 for 75%): `dog`
Oops! Enter a percentage between 0 and 100: `98`

Games with review scores higher than 98.00%:

Total War: WARHAMMER III
Review Score: 725.00%

SELECT FROM THE FOLLOWING CHOICES:
1. Print all games
2. Print game names
3. Print games in a particular genre
4. Print games over a rating percentage
5. Add a new game
6. Delete a game

```
7. Exit
CHOOSE 1-7: 5


Enter game details of the game you wish to add.
Name: Sid Meier's Civilization VII
Error: A game with the name "Sid Meier's Civilization VII" already exists. Aborting addition.


SELECT FROM THE FOLLOWING CHOICES:
1. Print all games
2. Print game names
3. Print games in a particular genre
4. Print games over a rating percentage
5. Add a new game
6. Delete a game
7. Exit
CHOOSE 1-7: 5

Enter game details of the game you wish to add.
Name: ISLANDERS
Copies Sold: -485
Oops! You must enter a non-negative integer: bum
Oops! You must enter an integer: 858900
Revenue: lots
Oops! You must enter a number: -333
Oops! You must enter a non-negative number: 2300000
Publisher Class: Coatsink
Publishers: Coatsink; GrisslyGames; Stage Clear Studios
Developers: Coatsink
Genres (List all separated by a comma. Ex:Adventure, Action, Simulation): Casual Games, Strategy Games
Early Access (1 for Yes, 0 for No): bl
Oops! You must enter either a 1 or 0: what
Oops! You must enter either a 1 or 0: 0
Steam Price: -444
Oops! You must enter a non-negative number: bum
Oops! You must enter a number: 4.99
Steam URL: https://store.steampowered.com/app/1046030
Average Playtime (hours): bum
Oops! You must enter a number: -4
Oops! You must enter a non-negative number: 5
Steam Review Score (65%): 95%


Game added successfully!


SELECT FROM THE FOLLOWING CHOICES:
1. Print all games
2. Print game names
3. Print games in a particular genre
4. Print games over a rating percentage
5. Add a new game
6. Delete a game
7. Exit
CHOOSE 1-7: 2

Game Names:
1. Hogwarts Legacy
2. The Lord of the Rings: Return from Moria
3. Palworld
4. Warhammer 40000: Space Marine 2
5. Black Myth: Wukong
6. ELDEN RING
7. Call of Duty
8. HELLDIVERS 2
9. Lost Ark
10. NARAKA: BLADEPOINT
11. Sons Of The Forest
12. Forza Horizon 5
13. Yu-Gi-Oh! Master Duel
14. Valheim
15. New World: Aeternum
16. Ready or Not
17. Starfield
18. Total War: WARHAMMER III
19. It Takes Two
20. Battlefield 2042
```

```
21. Path of Exile 2
22. EA SPORTS FC 24
23. Lethal Company
24. Among Us
25. The First Descendant
26. Dragon's Dogma 2
27. Dying Light 2 Stay Human: Reloaded Edition
28. Resident Evil 4
29. Indiana Jones and the Great Circle
30. THRONE AND LIBERTY
31. EA SPORTS FC 25
32. Call of Duty: Black Ops 6
33. STAR WARS Jedi: Survivor
34. V Rising
35. Age of Empires IV: Anniversary Edition
36. Marvel's Spider-Man Remastered
37. Street Fighter 6
38. Farming Simulator 22
39. ARMORED CORE VI FIRES OF RUBICON
40. MONSTER HUNTER RISE
41. God of War
42. Sonic X Shadow Generations
43. Manor Lords
44. ARK: Survival Ascended
45. DRAGON BALL: Sparking! ZERO
46. S.T.A.L.K.E.R. 2: Heart of Chornobyl
47. Enshrouded
48. Marvel Rivals
49. Granblue Fantasy: Relink
50. Once Human
51. REMNANT II
52. DAVE THE DIVER
53. Ghost of Tsushima DIRECTOR'S CUT
54. Planet Coaster
55. Sid Meier's Civilization VII
56. Raft
57. Humankind
58. Jurassic World Evolution 2
59. Pummel Party
60. The Jackbox Party Pack 10
61. The Talos Principle 2
62. Mortal Kombat 11
63. Pizza Tower
64. Cities: Skylines
65. American Truck Simulator
66. ISLANDERS


SELECT FROM THE FOLLOWING CHOICES:
1. Print all games
2. Print game names
3. Print games in a particular genre
4. Print games over a rating percentage
5. Add a new game
6. Delete a game
7. Exit
CHOOSE 1-7: 7

Do you want to save the updated list of games to games-list.txt? (y/n) y
Games successfully saved to games-list.txt.
Exiting program.
```

GAMES-LIST.TXT

I know it is tiny. But give you an idea.

(Look on next page)

```
1   Hogwarts Legacy,76000000,3.225e+08,AAA,Warner Bros. Games,Avalanche Software,{Action,Action RPGs,Adventure},0,59.99,https://store.steampowered.com/app/1880832,34.4,91%
2   The Lord of the Rings: Return from Moria,265500000,4.9e+06,Indie,North Beach Games,Free Range Games,{Action,Adventure},0,24.99,https://store.steampowered.com/app/29331
3   Palworld,18700000,4.403e+08,AA,Pocketpair,Pocketpair,{Action,Adventure,Role-playing games (RPGs)},1,29.99,https://store.steampowered.com/app/1623730,44.8,94%
4   Warhammer 40000: Space Marine 2,2500000,1.335e+08,AA,Focus Entertainment,Saber Interactive,{Action,Adventure},0,59.99,https://store.steampowered.com/app/2183900,28,83%
5   Black Myth: Wukong,21960747,9.56905e+08,AAA,Game Science,Game Science,{Action RPGs},0,59.99,https://store.steampowered.com/app/2358720,49.7511,97%
6   ELDEN RING,14015901,5.69796e+08,AAA,FromSoftware; Inc.;Bandai Namco Entertainment,FromSoftware; Inc.,{Action RPGs},0,59.99,https://store.steampowered.com/app/1245620,106.749
7   Call of Duty,37573497,4.567e+08,AAA,Activision,Treyarch;Raven Software;Beenox;High Moon Studios;Activision Shanghai;Sledgehammer Games;Infinity Ward;Demonware;Toys for Bob
8   HELLDIVERS 2,12184262,4.35616e+08,AAA,PlayStation Publishing LLC,Arrowhead Game Studios,{Shooter Games},0,39.99,https://store.steampowered.com/app/553850,88.9067,88.90668363
9   Lost Ark,15228374,3.9166e+08,AAA,Amazon Games,Smilegate RPG,{Action RPGs,Adventure},0,0,https://store.steampowered.com/app/1599340,334.086,71%
10  NARAKA: BLADEPOINT,15843247,3.16836e+08,AA,NetEase Games Global,24 Entertainment,{Massively Multiplayer Online RPGs (MMORPGs)},Adventure,Action},0,0,https://store.steampowere
11  Sons Of The Forest,9509562,2.27397e+08,AA,Newnight,Endnight Games Ltd,{Action,Adventure,Simulation},0,29.99,https://store.steampowered.com/app/1326470,43.444,87%
12  Forza Horizon 5,5791422,1.83926e+08,AAA,Xbox Game Studios,Playground Games,{Racing Games,Sports,Simulation,Action,Adventure},0,59.99,https://store.steampowered.com/app/1551
13  Yu-Gi-Oh! Master Duel,6284102,1.75044e+08,AA,KONAMI,KONAMI,{Strategy Games},0,0,https://store.steampowered.com/app/1449850,106.87,83%
14  Valheim,11185225,1.48006e+08,AA,Coffee Stain Publishing,Iron Gate AB,{Action,Adventure,Role-playing games (RPGs)},1,19.99,https://store.steampowered.com/app/892970,0,94%
15  New World: Aeternum,5556794,1.45021e+08,AAA,Amazon Games,Amazon Games,{Action,Adventure,Massively Multiplayer Online RPGs (MMORPGs)},0,59.99,https://store.steampowered.com/a
16  Ready or Not,4869087,1.4346e+08,AA,VOID Interactive,VOID Interactive,{Action,Adventure},0,49.99,https://store.steampowered.com/app/1144200,0,89%
17  Starfield,2233509,1.39774e+08,AAA,Bethesda Softworks,Bethesda Game Studios,{Role-playing games (RPGs)},0,69.99,https://store.steampowered.com/app/1716740,107.28,57%
18  Total War: WARHAMMER III,3479915,1.36041e+08,AAA,SEGA;Feral Interactive,CREATIVE ASSEMBLY;Feral Interactive,{Action,Strategy Games},0,59.99,https://store.steampowered.com/ap
19  It Takes Two,7877015,1.34387e+08,AAA,Electronic Arts,Hazelight Studios,{Action,Adventure},0,39.99,https://store.steampowered.com/app/1426210,0,95%
20  Battlefield 2042,6647435,1.279e+08,AAA,Electronic Arts,DICE,{Action,Adventure,First Person Shooters,Casual Games},0,59.99,https://store.steampowered.com/app/1517290,0,46%
21  Path of Exile 2,4666936,1.25965e+08,AA,Grinding Gear Games,Grinding Gear Games,{Action,Adventure,Massively Multiplayer Online RPGs (MMORPGs)},1,29.99,https://store.steampowe
22  EA SPORTS FC 24,4169497,1.24814e+08,AAA,Electronic Arts,EA Canada & EA Romania,{Simulation,Sports},0,69.99,https://store.steampowered.com/app/2195250,88.7032,57%
23  Lethal Company,13365248,1.14993e+08,AA,Zeekerss,Zeekerss,{Action,Adventure},1,9.99,https://store.steampowered.com/app/1966720,45.2748,97%
24  Among Us,19900000,3.48e+07,AA,Innersloth,Innersloth,{Party Games,Casual Games},0,4.99,https://store.steampowered.com/app/945360,22.5,92%
25  The First Descendant,3954075,1.14392e+08,AA,NEXON,NEXON Games Co.; Ltd.,{Action,Adventure,Role-playing games (RPGs)},0,0,https://store.steampowered.com/app/2074920,96.1113,5
26  Dragon's Dogma 2,1909052,1.12512e+08,AAA,CAPCOM Co.; Ltd.,CAPCOM Co.; Ltd.,{Action,Role-playing games (RPGs)},0,69.99,https://store.steampowered.com/app/2054970,48.3327,61%
27  Dying Light 2 Stay Human: Reloaded Edition,3523665,1.09492e+08,AA,Techland,Techland,{Action,Adventure,Role-playing games (RPGs)},0,59.99,https://store.steampowered.com/app/5
28  Resident Evil 4,2777627,1.06075e+08,AAA,CAPCOM Co.; Ltd.,CAPCOM Co.; Ltd.,{Action,Adventure,Shooter Games},0,39.99,https://store.steampowered.com/app/2050650,41.158,98%
29  Indiana Jones and the Great Circle,189400,1.19e+07,AA,Bethesda Softworks,MachineGames,{Puzzle Games,Action,Adventure},0,69.99,https://store.steampowered.com/app/2677660,14.2
30  THRONE AND LIBERTY,3540901,1.01052e+08,AAA,Amazon Games,NCSOFT,{Action,Adventure,Massively Multiplayer Online RPGs (MMORPGs)},0,0,https://store.steampowered.com/app/2429640,
31  EA SPORTS FC 25,2040684,9.89312e+07,AAA,Electronic Arts,EA Canada & EA Romania,{Simulation,Sports},0,69.99,https://store.steampowered.com/app/2669320,86.9944,48%
32  Call of Duty: Black Ops 6,1468501,9.07519e+07,AAA,Activision,Treyarch;Raven Software;Beenox;High Moon Studios;Activision Shanghai;Sledgehammer Games;Infinity Ward;Demonware,
33  STAR WARS Jedi: Survivor,1813940,8.32644e+07,AAA,Electronic Arts,Respawn,{Action,Adventure},0,69.99,https://store.steampowered.com/app/1774580,26.7676,68%
34  V Rising,4571060,8.25594e+07,AA,Stunlock Studios,Stunlock Studios,{Action,Adventure,Massively Multiplayer Online RPGs (MMORPGs)},0,34.99,https://store.steampowered.com/app/1
35  Age of Empires IV: Anniversary Edition,3213086,7.9574e+07,AAA,Xbox Game Studios,Relic Entertainment;Forgotten Empires;Climax Studios;World's Edge,{Strategy Games},0,39.99,ht
36  Marvel's Spider-Man Remastered,2043099,7.93748e+07,AAA,PlayStation Publishing LLC,Insomniac Games;Nixxes Software,{Action,Adventure,Casual Games},0,59.99,https://store.steam
37  Street Fighter 6,1817123,7.71537e+07,AAA,CAPCOM Co.; Ltd.,CAPCOM Co.; Ltd.,{Action,Adventure,Fighting Games},0,59.99,https://store.steampowered.com/app/1364780,106.027,86%
38  Farming Simulator 22,2591312,7.60603e+07,AA,Giants Software,Giants Software,{Simulation},0,29.99,https://store.steampowered.com/app/1248130,202.739,92%
39  ARMORED CORE VI FIRES OF RUBICON,1480801,7.54922e+07,AAA,FromSoftware; Inc.;Bandai Namco Entertainment,FromSoftware; Inc.,{Action},0,59.99,https://store.steampowered.cc
40  MONSTER HUNTER RISE,3974804,7.54458e+07,AAA,CAPCOM Co.; Ltd.,CAPCOM Co.; Ltd.,{Action},0,39.99,https://store.steampowered.com/app/1446780,113.011,82%
41  God of War,2741810,7.50211e+07,AAA,PlayStation Publishing LLC,Santa Monica Studio;Jetpack Interactive,{Action,Adventure,Role-playing games (RPGs)},0,49.99,https://store.stea
42  Sonic X Shadow Generations,167900,7.7e+06,AAA,SEGA,Sonic Team,{Platformers,Action},0,49.99,https://store.steampowered.com/app/2513280,11.4,98%
43  Manor Lords,2724302,7.3736e+07,AA,Hooded Horse,Slavic Magic,{Simulation,Strategy Games},1,39.99,https://store.steampowered.com/app/1363080,40.935,87%
44  ARK: Survival Ascended,1906920,7.13607e+07,AA,Studio Wildcard,Studio Wildcard;Grove Street Games;Instinct Games,{Action,Adventure,Massively Multiplayer Onli
45  DRAGON BALL: Sparking! ZERO,1139817,7.11843e+07,AAA,Bandai Namco Entertainment,Spike Chunsoft Co.; Ltd.,{Action,Fighting Games},0,69.99,https://store.steampowered.com/app/17
46  S.T.A.L.K.E.R. 2: Heart of Chornobyl,1336812,7.0483e+07,AA,GSC Game World (worldwide)/SEGA (Japan);4divinity (China and South East Asia),GSC Game World,{Action,Adventure,Rol
47  Enshrouded,2811866,6.89163e+07,AA,Keen Games GmbH,Keen Games GmbH,{Action,Adventure,Role-playing games (RPGs)},1,29.99,https://store.steampowered.com/app/1203620,60.0789,87%
48  Marvel Rivals,16265708,6.60532e+07,AA,NetEase Games,NetEase Games,{Action,Shooter Games},0,0,https://store.steampowered.com/app/2767030,0,81%
49  Granblue Fantasy: Relink,1391699,6.28065e+07,AA,Cygames; Inc.,Cygames; Inc.,{Action,Adventure,Role-playing games (RPGs)},0,59.99,https://store.steampowered.com/app/881020,0,
50  Once Human,6675885,6.16437e+07,AA,Starry Studio,Starry Studio,{Action,Adventure,Simulation,Role-playing games (RPGs)},0,0,https://store.steampowered.com/app/2139460,136.169,
51  REMNANT II,1589588,6.13184e+07,AA,Arc Games,Gunfire Games,{Action,Adventure,Role-playing games (RPGs),Shooter Games},0,49.99,https://store.steampowered.com/app/1282100,73.72
52  DAVE THE DIVER,4112286,6.01417e+07,AA,MINTROCKET,MINTROCKET,{Adventure,Casual Games,Simulation,Role-playing games (RPGs)},1,19.99,https://store.steampowered.com/app/1868140,
53  Ghost of Tsushima DIRECTOR'S CUT,1144719,5.98419e+07,AAA,PlayStation Publishing LLC,Sucker Punch Productions;Nixxes Software,{Action,Adventure},0,59.99,https://store.steampo
54  Planet Coaster,3000000,4.49e+07,AA,Frontier Developments; Aspyr(Mac),Frontier Developments; Aspyr(Mac),{Action,Adventure,Casual Games,Simulation,Strategy Games},0,44.99,http
55  Sid Meier's Civilization VII,194000,1.35e+07,AA,2K,Firaxis Games,{Simulation,Strategy Games},0,69.99,https://store.steampowered.com/app/1295660,0,0%
56  Raft,11800000,1.51e+08,AA,Axolot Games,Redbeet Interactive,{Adventure,Simulation},0,19.99,https://store.steampowered.com/app/648800,27.7,93%
57  Humankind,799600,1.68e+07,AA,SEGA,AMPLITUDE Studios,{Strategy Games},0,49.99,https://store.steampowered.com/app/1124300,34.6,68%
58  Jurassic World Evolution 2,1500000,4e+07,AAA,Frontier Developments,Frontier Developments,{Simulation,Strategy Games},0,59.99,https://store.steampowered.com/app/1244460,27,8
59  Pummel Party,5600000,4.91e+07,AA,Rebuilt Games,Rebuilt Games,{Action,Casual Games,Party Games},0,14.99,https://store.steampowered.com/app/880940,13.5,89%
60  The Jackbox Party Pack 10,64900,1.8e+06,AA,Jackbox Games Inc.,Jackbox Games Inc.,{Party Games,Casual Games,Strategy Games},0,29.99,https://store.steampowered.com/app/221683C
61  The Talos Principle 2,253600,5.1e+06,AA,Devolver Digital,Croteam,{Action,Adventure,Puzzle Games},0,29.99,https://store.steampowered.com/app/835960,24.1,96%
62  Mortal Kombat 11,3000000,3.48e+07,AAA,Warner Bros. Games,NetherRealm Studios;QLOC;Shiver,{Action,Fighting Games},0,49.99,https://store.steampowered.com/app/976310,31.2,88%
63  Pizza Tower,702100,1.15e+07,AA,Tour De Pizza,Tour De Pizza,{Action,Platformers},0,19.99,https://store.steampowered.com/app/2231450,34.2,98%
64  Cities: Skylines,10700000,1.035e+08,AAA,Paradox Interactive,COlossal Order Ltd.,{Simulation,Strategy Games},0,29.99,https://store.steampowered.com/app/255710,54,93%
65  American Truck Simulator,4400000,3.07e+07,AA,SCS Software,SCS Software,{Simulation},0,19.99,https://store.steampowered.com/app/270880,77.7,97%
66  ISLANDERS,858900,2.3e+06,Coatsink,Coatsink; GrisslyGames; Stage Clear Studios,Coatsink,{Casual Games,Strategy Games},0,4.99,https://store.steampowered.com/app/1046030,5,95%
67
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