## 5. Paveldėjimas

#### 5.1. Darbo užduotis

**U5\_1. Krepšinio rinktinė.** Turite trijų pastarųjų metų į stovyklas pakviestų krepšininkų sąrašus. Pirmoje eilutėje – metai, antroje – stovyklos pradžios data, trečioje – stovyklos pabaigos data. Toliau informacija apie rinktinės narius. Krepšinio rinktinę sudaro ne tik krepšininkai, bet ir pagalbinis personalas – treneriai, gydytojai, masažuotojai ir kt. Sukurkite klasę "Member" (savybės – vardas, pavardė, gimimo data), kurią paveldės klasės "Player" (savybės – ūgis, pozicija, klubas, požymis "pakviestas", požymis "kapitonas") ir "Staff" (savybė – pareigos).

- Sudarykite rinktinės narių (tiek krepšininkų, tiek personalo), dalyvavusių visose trijose stovyklose, sąrašą ir atspausdinkite jį ekrane.
- Sudarykite visų puolėjų, dalyvavusių rinktinės stovyklose, sąrašą ir ekrane atspausdinkite jų vardus, pavardes bei ūgį. Sudarykite vyr. trenerių sąrašą ir atspausdinkite ekrane visų jų vardus ir pavardes.
- Atspausdinkite kiekvienos stovyklos dalyvių sąrašą, išrikiuojant juos pagal amžių nuo vyriausio iki jauniausio.
- Sudarykite visų į rinktinę pakviestų krepšininkų sąrašą. Jų duomenis įrašykite į failą "Rinktinė.csv". Sudarykite viso į rinktinę pakviesto personalo sąrašą. Jų duomenis įrašykite į failą "Personalas.csv".

## 5.2. Programos tekstas

```
using System;
using System.Collections.Generic;
using System. Text;
using System.IO;
class Branch
        public int Year { get; set; }
        public DateTime StartDate { get; set; }
        public DateTime EndDate { get; set; }
        public MemberContainer Players { get; set; }
        public MemberContainer Staff { get; set; }
        public Branch (int year, DateTime startDate, DateTime endDate)
            Year = year;
            StartDate = startDate;
            EndDate = endDate;
            Players = new MemberContainer(Program.MaxNumberOfMembers);
            Staff = new MemberContainer(Program.MaxNumberOfMembers);
        }
        public void AddPlayer(Player player)
            Players.AddMember(player);
        public void AddStaff(Staff staff)
            Staff.AddMember(staff);
```

```
}
        /// <summarv>
        /// Returns all members from one branch in one container
        /// </summary>
        /// <returns></returns>
        public MemberContainer GetAllMembers()
            MemberContainer allMembers = new
MemberContainer(Program.MaxNumberOfMembers);
            for (int i = 0; i < Players.Count; i++)</pre>
                allMembers.AddMember(Players.GetMember(i));
            for (int j = 0; j < Staff.Count; j++)</pre>
                allMembers.AddMember(Staff.GetMember(j));
            return allMembers;
    }
class InOut
        /// <summary>
        /// Calling method for main data reading method
        /// </summary>
        /// <param name="branches"></param>
        /// <param name="number"></param>
        public static void ReadFiles(Branch[] branches, ref int number)
            string[] fileNames = Directory.GetFiles(Directory.GetCurrentDirectory(),
"*.csv");
            foreach (var file in fileNames)
                ReadMemberData(file, branches, ref number);
        }
        /// <summary>
        /// Reads all data from a branch
        /// </summary>
        /// <param name="fileName"></param>
        /// <param name="branches"></param>
        /// <param name="number"></param>
        private static void ReadMemberData(string fileName, Branch[] branches, ref int
number)
            string[] lines = File.ReadAllLines(fileName);
            int year = int.Parse(lines[0]);
            DateTime startDate = DateTime.Parse(lines[1]);
            DateTime endDate = DateTime.Parse(lines[2]);
            Branch branch = TaskUtils.GetBranch(branches, ref number, year,
startDate, endDate);
            for (int i = 3; i < lines.Length; i++)</pre>
                string[] values = lines[i].Split(';');
                char type = char.Parse(values[0]);
                string firstName = values[1];
                string lastName = values[2];
                DateTime birthDate = DateTime.Parse(values[3]);
```

```
switch (type)
                    case 'P':
                        double height = double.Parse(values[4]);
                        string position = values[5];
                        string club = values[6];
                        bool isInvited = bool.Parse(values[7]);
                        bool isCaptain = bool.Parse(values[8]);
                        Player player = new Player(firstName, lastName, birthDate,
height, position, club, isInvited, isCaptain);
                        if (!branch.Players.Contains(player))
                             branch.AddPlayer(player);
                        break;
                    case 'S':
                        string duty = values[4];
                        Staff staff = new Staff(firstName, lastName, birthDate, duty);
                        if (!branch.Staff.Contains(staff))
                            branch.AddStaff(staff);
                        break;
        }
        /// <summary>
        /// Prints members to screen with all of their info
        /// </summarv>
        /// <param name="members"></param>
        /// <param name="header"></param>
        public static void PrintMembersToScreen (MemberContainer members, string header)
            Console.WriteLine("\n" + header);
            Console.WriteLine(new string('-', 112));
            if (members.Count == 0)
                Console.WriteLine("Nariu nera");
            else
                for (int i = 0; i < members.Count; i++)</pre>
                Console.WriteLine(members.GetMember(i).ToString());
            Console.WriteLine(new string('-', 112));
        /// <summary>
        /// Calling method for printing each branch members
        /// </summary>
        /// <param name="membersFromBranch"></param>
        /// <param name="header"></param>
        public static void PrintMembersFromBranches(MemberContainer[]
membersFromBranch, string header)
            for (int i = 0; i < membersFromBranch.Length; i++)</pre>
                PrintMembersToScreen (membersFromBranch[i], i+1 + "-os stovyklos
dalyviai:");
```

}

```
/// <summary>
        /// Prints players to screen as name, last name and height
        /// </summary>
        /// <param name="players"></param>
        /// <param name="header"></param>
        public static void PrintPlayersToScreen(List<Player> players, string header)
           Console.WriteLine("\n" + header);
           Console.WriteLine(new string('-', 40));
           if (players.Count == 0)
               Console.WriteLine("Nariu nera");
           else
           {
               Console.WriteLine(" {0,-10} | {1,-15} | {2,5} | ", "Vardas", "Pavardė",
"Ūgis");
               Console.WriteLine(new string('-', 40));
               for (int i = 0; i < players.Count; i++)</pre>
                   Player player = players[i];
                   Console.WriteLine(string.Format(" | {0,-10} | {1,-15} | {2,5} | ",
player.FirstName, player.LastName, player.Height));
           Console.WriteLine(new string('-', 40));
       }
        /// <summarv>
        /// Prints only members first and last names to screen
        /// </summary>
        /// <param name="members"></param>
        /// <param name="header"></param>
        public static void PrintMemberNamesToScreen (MemberContainer members, string
header)
            Console.WriteLine("\n" + header);
            Console.WriteLine(new string('-', 32));
            if (members.Count == 0)
                 Console.WriteLine("Narių nėra");
            else
                 for (int i = 0; i < members.Count; i++)</pre>
                     Member member = members.GetMember(i);
                     Console.WriteLine(string.Format("|\{0,-10\}|\{1,-15\}|",
member.FirstName, member.LastName));
            Console.WriteLine(new string('-', 32));
        }
        /// <summary>
        /// Prints all read data to .txt file
        /// </summary>
        /// <param name="fileName"></param>
        /// <param name="branches"></param>
        public static void PrintDataToTXT(string fileName, Branch[] branches)
            List<string> lines = new List<string>();
```

```
for (int i = 0; i < branches.Length; i++)</pre>
                lines.Add(String.Format("\n" + i + " camp info:"));
                lines.Add(String.Format("Camp year: " + branches[i].Year));
                lines.Add(String.Format("Camp start: " +
branches[i].StartDate.ToShortDateString());
                lines.Add(String.Format("Camp end: " +
branches[i].EndDate.ToShortDateString());
                lines.Add(String.Format(new string('-', 112)));
                MemberContainer members = branches[i].GetAllMembers();
                for (int j = 0; j < members.Count; <math>j++)
                    lines.Add(members.GetMember(j).ToString());
                lines.Add(String.Format(new string('-', 112)));
            File.AppendAllLines(fileName, lines, Encoding.UTF8);
        /// <summary>
        /// Prints members to .csv file
        /// </summary>
        /// <param name="fileName"></param>
        /// <param name="members"></param>
        /// <param name="header"></param>
       public static void PrintPlayersToCSV(string fileName, MemberContainer members,
string header)
            List<string> lines = new List<string>();
            lines.Add("\n" + header);
            if (members.Count == 0)
                lines.Add("Narių nėra");
            else
                for (int i = 0; i < members.Count; i++)</pre>
                    Player player = members.GetMember(i) as Player;
                    lines.Add(String.Format("{0};{1};{2};{3};{4};{5};{6};{7}",
player.FirstName, player.LastName, player.BirthDate.ToShortDateString(), player.Height,
player.Position,player.Club, player.IsInvited, player.IsCaptain));
            File.WriteAllLines(fileName, lines, Encoding.UTF8);
abstract class Member
        public string FirstName { get; set; }
        public string LastName { get; set; }
        public DateTime BirthDate { get; set; }
        public Member(string firstName, string lastName, DateTime birthDate)
            FirstName = firstName;
```

```
LastName = lastName;
            BirthDate = birthDate;
        public override bool Equals(object obj)
            Member other = obj as Member;
            return other != null && other.FirstName == FirstName && other.LastName ==
LastName && other.BirthDate == BirthDate;
        /// <summary>
        /// Compares members by their birthdates
        /// </summary>
        /// <param name="other"></param>
        /// <returns></returns>
        public int CompareTo(Member other)
            if (this.BirthDate.CompareTo(other.BirthDate) > 0)
            if (this.BirthDate.CompareTo(other.BirthDate) < 0)</pre>
            return 0;
        public override string ToString()
            return string.Format(" \{0,-10\} \{1,-15\} \{2,10\} \|", FirstName, LastName,
BirthDate.ToShortDateString());
class MemberContainer
        private Member[] Members;
        public int Count { get; private set; }
        public MemberContainer(int size)
            Members = new Member[size];
        public MemberContainer()
        public void AddMember(Member member)
            Members[Count] = member;
            Count++;
        }
        public void SetMember(int index, Member member)
            Members[index] = member;
        public Member GetMember(int index)
            return Members[index];
        /// <summary>
        /// Returns index of given member
```

```
/// </summary>
/// <param name="member"></param>
/// <returns></returns>
public int GetIndex(Member member)
    int index = 0;
    for (int i = 0; i < Members.Count(); i++)</pre>
        if (member.Equals(Members[i]))
        {
            index = i;
            break;
    return index;
}
/// <summary>
/// Removes member from member container
/// </summary>
/// <param name="member"></param>
public void RemoveMember(Member member)
    int i = 0;
    while (i < Count)</pre>
        if (Members[i].Equals(member))
        {
            Count--;
            for (int j = i; j < Count; j++)
                 Members[j] = Members[j + 1];
            break;
        i++;
}
public bool Contains (Member member)
    return Members.Contains(member);
/// <summary>
/// Sorts members by overided CompareTo method
/// </summary>
public void Sort()
    Member member = this.Members[0];
    int m;
    for (int i = 0; i < this.Count; i++)</pre>
        m = i;
        for (int j = 0; j < this.Count; <math>j++)
            if (this.Members[j].CompareTo(this.Members[i]) > 0)
            {
                m = j;
                member = this.Members[i];
                 this.Members[i] = this.Members[m];
                 this.Members[m] = member;
            }
```

```
}
        }
class Player : Member
        public double Height { get; set; }
        public string Position { get; set; }
        public string Club { get; set; }
        public bool IsInvited { get; set; }
        public bool IsCaptain { get; set; }
        public Player(string firstName, string lastName, DateTime birthDate,
            double height, string position, string club, bool is Invited, bool
isCaptain)
            : base(firstName, lastName, birthDate)
            Height = height;
            Position = position;
            Club = club;
            IsInvited = isInvited;
            IsCaptain = isCaptain;
        public override string ToString()
            return string.Format(" | \{0,-15\} | \{1,-15\} | \{2,-10\} | \{3,7\} | \{4,-10\} |
\{5,-20\} \mid \{6,-5\} \mid \{7,-5\} \mid ",
                FirstName, LastName, BirthDate.ToShortDateString(), Height, Position,
Club, IsInvited, IsCaptain);
class Staff : Member
        public string Duty { get; set; }
        public Staff(string firstName, string lastName, DateTime birthDate, string
duty)
            : base(firstName, lastName, birthDate)
            Duty = duty;
        public override string ToString()
            return string.Format(" \{0,-15\} \mid \{1,-15\} \mid \{2,-10\} \mid \{3,-20\} \mid ",
                 FirstName, LastName, BirthDate.ToShortDateString(),Duty);
    }
class TaskUtils
        /// <summary>
        /// Returns branch from given branch info
        /// </summary>
        /// <param name="branches"></param>
        /// <param name="number"></param>
        /// <param name="year"></param>
        /// <param name="startDate"></param>
        /// <param name="endDate"></param>
        /// <returns></returns>
```

```
public static Branch GetBranch(Branch[] branches, ref int number, int year,
DateTime startDate, DateTime endDate)
            for (int i = 0; i < number; i++)
                if (branches[i].Year == year && branches[i].StartDate == startDate &&
branches[i].EndDate == endDate)
                    return branches[i];
            branches[number++] = new Branch(year, startDate, endDate);
            return branches[number - 1];
        }
        /// <summary>
        /// Returns members that are in all branches
        /// </summary>
        /// <param name="branches"></param>
        /// <param name="branchCount"></param>
        /// <returns></returns>
        public static MemberContainer AttendedAll (Branch[] branches, int branchCount)
            MemberContainer AttendedAll = new MemberContainer();
            for (int i = 0; i < branchCount; i++)</pre>
                if (i == 0)
                    AttendedAll = branches[i].GetAllMembers();
                    AttendedAll = RemoveUnattended(AttendedAll, branches[i]);
            return AttendedAll;
        }
        /// <summary>
        /// Removes members that aren't in all branches
        /// </summary>
        /// <param name="Attendees"></param>
        /// <param name="branch"></param>
        /// <returns></returns>
        public static MemberContainer RemoveUnattended (MemberContainer Attendees,
Branch branch)
            MemberContainer branchMembers = branch.GetAllMembers();
            for (int i = 0; i < Attendees.Count; i++)</pre>
                if (!branchMembers.Contains(Attendees.GetMember(i)))
                    Attendees.RemoveMember(Attendees.GetMember(i));
            return Attendees;
        }
        /// <summary>
        /// Returns all players from branches
        /// </summary>
        /// <param name="branches"></param>
        /// <param name="number"></param>
        /// <returns></returns>
        public static MemberContainer AllPlayersContainer(Branch[] branches,int number)
            MemberContainer allPlayers = new MemberContainer(Program.MaxNumberOfMembers
* Program.MaxNumberOfBranches);
```

```
for (int i = 0; i < number; i++)
                for (int j = 0; j < branches[i].Players.Count; j++)</pre>
                {
                    Player player = branches[i].Players.GetMember(j) as Player;
                    if(!allPlayers.Contains(player))
                    {
                        allPlayers.AddMember(player);
                    }
                    else
                    if(allPlayers.Contains(player) && player.IsInvited == true)
                        allPlayers.SetMember(allPlayers.GetIndex(player), player);
            return allPlayers;
        }
        /// <summary>
        /// Returns all staff from branches
        /// </summary>
        /// <param name="branches"></param>
        /// <param name="number"></param>
        /// <returns></returns>
        public static MemberContainer AllStaff(Branch[] branches, int number)
            MemberContainer allStaff = new MemberContainer(Program.MaxNumberOfMembers *
Program.MaxNumberOfBranches);
            for (int i = 0; i < number; i++)
                for (int j = 0; j < branches[i].Staff.Count; j++)</pre>
                    if(!allStaff.Contains(branches[i].Staff.GetMember(j)))
                    allStaff.AddMember(branches[i].Staff.GetMember(j));
            return allStaff;
        }
        /// <summary>
        /// Returns players that are in position of attacker
        /// </summary>
        /// <param name="players"></param>
        /// <returns></returns>
        public static List<Player> GetAttackers(MemberContainer players)
            List<Player> OnlyAttackers = new List<Player>();
            for (int i = 0; i < players.Count; i++)</pre>
                Player player = players.GetMember(i) as Player;
                if (player.Position == "Puolejas")
                    OnlyAttackers.Add(player);
            return OnlyAttackers;
        }
        /// <summary>
        /// Returns all headtrainers from all staff
        /// </summary>
        /// <param name="staff"></param>
        /// <returns></returns>
```

```
public static MemberContainer GetHeadTrainers(MemberContainer staff)
            MemberContainer headTrainers = new
MemberContainer(Program.MaxNumberOfMembers * Program.MaxNumberOfBranches);
            for (int i = 0; i < staff.Count; i++)
                Staff staffMember = staff.GetMember(i) as Staff;
                if (staffMember.Duty == "Vyr. Treneris" &&
!headTrainers.Contains(staff.GetMember(i)))
                    headTrainers.AddMember(staff.GetMember(i));
            }
            return headTrainers;
        /// <summary>
        /// Returns all members from each branch in separate containers
        /// </summary>
        /// <param name="branches"></param>
        /// <param name="number"></param>
        /// <returns></returns>
        public static MemberContainer[] GetEachBranchMembers (Branch[] branches,int
number)
            MemberContainer[] branchMemberArray = new MemberContainer[number];
            for (int i = 0; i < number; i++)
                branchMemberArray[i] = branches[i].GetAllMembers();
            return branchMemberArray;
        }
        /// <summary>
        /// Sorts the container array
        /// </summary>
        /// <param name="memberContainers"></param>
        /// <returns></returns>
        public static MemberContainer[] SortEachContainer (MemberContainer[]
memberContainers)
            for (int i = 0; i < memberContainers.Length; i++)</pre>
                memberContainers[i].Sort();
            return memberContainers;
        /// <summary>
        /// Returns only players that are invited
        /// </summary>
        /// <param name="players"></param>
        /// <returns></returns>
        public static MemberContainer GetInvitedPlayers(MemberContainer players)
            MemberContainer invitedOnly = new
MemberContainer(Program.MaxNumberOfBranches*Program.MaxNumberOfMembers);
            for (int i = 0; i < players.Count; i++)</pre>
```

```
Player player = players.GetMember(i) as Player;
                if(player.IsInvited)
                    invitedOnly.AddMember(players.GetMember(i));
            return invitedOnly;
        }
    }
class Program
        public const int MaxNumberOfBranches = 3;
        public const int MaxNumberOfMembers = 30;
        static void Main(string[] args)
            string Sdata = "StartingData.txt";
            File.Delete("Rinktine.csv");
            Branch[] branches = new Branch[MaxNumberOfBranches];
            int branchCount = 0;
            InOut.ReadFiles(branches, ref branchCount);
            File.Delete(Sdata);
            InOut.PrintDataToTXT(Sdata, branches);
            MemberContainer allPlayers = TaskUtils.AllPlayersContainer(branches,
branchCount):
            MemberContainer allStaff = TaskUtils.AllStaff(branches, branchCount);
            MemberContainer AttendedAll = TaskUtils.AttendedAll(branches, branchCount);
            InOut.PrintMembersToScreen(AttendedAll, "Nariai dalyvave visose
stovyklose:");
            List<Player> allAttackers = TaskUtils.GetAttackers(allPlayers);
            InOut.PrintPlayersToScreen(allAttackers, "Visi dalyvave puolejai:");
            MemberContainer HeadTrainers = TaskUtils.GetHeadTrainers(allStaff);
            InOut.PrintMemberNamesToScreen(HeadTrainers, "Vyr. treneriai:");
            MemberContainer[] MembersInBranchArray =
TaskUtils.GetEachBranchMembers(branches, branchCount);
            MembersInBranchArray = TaskUtils.SortEachContainer(MembersInBranchArray);
            InOut.PrintMembersFromBranches (MembersInBranchArray, "Kiekvienos stovyklos
dalyviai:");
            MemberContainer InvitedPlayers = TaskUtils.GetInvitedPlayers(allPlayers);
            InOut.PrintMembersToCSV("Rinktine.csv", InvitedPlayers, "Žaidėjai pakviesti
i rinktine:");
```

# 5.3. Pradiniai duomenys ir rezultatai

## StartingData.txt(1):

0 camp info: Camp year: 2020 Camp start: 2020-05-01 Camp end: 2020-05-21

Jonas	Kazakevičius	1993-03-26	1,92	Puolėjas	KK Lūšis	False	False
Andrius	Jankūnas	1994-07-21	1,86	Įžaidėjas	Klaipėdos Neptūnas	True	False
Alvydas	Jogaila	1995-11-27	1,89	Gynėjas	Alytaus Alita	False	True
Tomas	Andriulis	1996-05-03	1,88	Puolėjas	Tauragės Tauragė	False	False
Petras	Adomavičius	1993-01-15	1,96	Gynėjas	Utenos Juventus	True	True
Sigitas	Valeika	1980-11-11	Vyr. Treneris				
Dovilė	Petrylaitė	1995-07-18	l Masažuotoja		İ		

1 camp info: Camp year: 2019 Camp start: 2019-06-07 Camp end: 2019-06-25

Petras	Adomavičius	1993-01-15	1,96	Gynėjas	Utenos Juventus	False	True
Alvydas	Jogaila	1995-11-27	1,89	Gynėjas	Alytaus Alita	True	True
Andrius	Jankūnas	1994-07-21	1,86	Įžaidėjas	Klaipėdos Neptūnas	False	False
Jonas	Kazakevičius	1993-03-26	1,92	Puolėjas	KK Lūšis	True	False
Sigitas	Valeika	1980-11-11	Vvr. Treneris				
Algis	Roleika	1982-04-05	Vyr. Treneris		1		
Daiva	Giraitė	1993-12-17	Masažuotoja		İ		

2 camp info: Camp year: 2018 Camp start: 2018-07-10 Camp end: 2018-07-28

Tomas	Andriulis	1996-05-03	1,88   Puolėjas	Tauragės Tauragė	False   Fals
Jonas	Kazakevičius	1993-03-26	1,92   Puolėjas	KK Lūšis	False   Fals
Andrius	Jankūnas	1994-07-21	1,86   Įžaidėja	Klaipėdos Neptūnas	False   Fals
Petras	Adomavičius	1993-01-15	1,96   Gynėjas	Utenos Juventus	False   True
Sigitas	Valeika	1980-11-11	Vyr. Treneris	and the second s	
Ramūnas	Nerkauskas	1983-08-23	Treneris	i	

#### Console(1):

Jonas Andrius Petras Sigitas	Kazakevicius   Jankunas   Adomavicius   Valeika	1993-03-26   1994-07-21   1993-01-15   1980-11-11	1,92 1,86 1,96 Vyr. Tre		KK Lusis   Klaipedos Neptunas   Utenos Juventus 	False   True   True	False   False   True
si dalyvav	e puolejai:						
Vardas	Pavarde	Ugis					
Jonas Tomas	Kazakevicius     Andriulis	1,92   1,88					
r. treneri	ai:						
Sigitas Algis	Valeika     Roleika						
os stovykl	os dalyviai:						
Sigitas	Valeika	1980-11-11	Vyr. Tre				
Petras	Adomavicius	1993-01-15	1,96	Gynejas	Utenos Juventus	True	True
Jonas	Kazakevicius	1993-03-26	1,92	Puolejas	KK Lusis	False	False
Andrius Dovile	Jankunas	1994-07-21		Izaidejas	Klaipedos Neptunas	True	False
Alvydas	Petrylaite   Jogaila	1995-07-18	Masazuot   1,89	Gynejas	Alytaus Alita	False	True
Tomas	Andriulis	1996-05-03	1,88	Puolejas	Taurages Taurage	False	False
os stovykl	os dalyviai:						
Sigitas	Valeika   Roleika	1980-11-11	Vyr. Tre				
Algis Petras	Adomavicius	1982-04-05	Vyr. Tre	l Gyneias	Utenos Juventus	False	True
Jonas	Kazakevicius	1993-01-15	1,96		KK Lusis	True	False
Daiva	Giraite	1993-03-20	Masazuot		100 10010	Titue	1 9126
Andrius	Jankunas	1994-07-21	1,86	Izaidejas	Klaipedos Neptunas	False	False
Alvydas	Jogaila	1995-11-27	1,89	Gynejas	Alytaus Alita	True	True
os stovykl	os dalyviai:						
Sigitas	Valeika	1980-11-11	Vyr. Tre	neris			
Ramunas	Nerkauskas	1983-08-23	Treneris				
Petras	Adomavicius	1993-01-15	1,96		Utenos Juventus	False	True
Jonas	Kazakevicius	1993-03-26	1,92	Puolejas	KK Lusis	False	False
		1 4004 07 24	1,86	Izaidejas	Klaipedos Neptunas	False	False
Andrius	Jankunas	1994-07-21	1,00	12alue Jas	Klaipedos Neptunas	Latie	raisi

#### Rinktine.csv(1):

Žaidėjai p	akviesti į rinktine	<b>?</b> :					
Jonas	Kazakevičius	1993-03-26	1,92	Puolėjas	KK Lūšis	TRUE	FALSE
Andrius	Jankūnas	1994-07-21	1,86	Įžaidėjas	Klaipėdos Neptūnas	TRUE	FALSE
Alvydas	Jogaila	1995-11-27	1,89	Gynėjas	Alytaus Alita	TRUE	TRUE
Petras	Adomavičius	1993-01-15	1,96	Gynėjas	Utenos Juventus	TRUE	TRUE

StartingData.txt(2)

0 camp info: Camp year: 2020 Camp start: 2020-05-01 Camp end: 2020-05-21

Andrius   Alvydas	Jankūnas   Jogaila	1994-07-21      1,86   Įžaidėjas   1995-11-27      1,89   Gynėjas	Klaipėdos Neptūnas   Alytaus Alita	False   False     False   True
Tomas	Andriulis	1996-05-03   1,88   Įžaidėjas	Tauragės Tauragė	False   False
Sigitas	Valeika	1980-11-11   Treneris		
Dovilė	Petrylaitė	1995-07-18   Masažuotoja		

1 camp info: Camp year: 2019 Camp start: 2019-06-07 Camp end: 2019-06-25

Alvydas	Jogaila	1995-11-27   1,89	Gynėjas	Alytaus Alita	False	True
Jonas	Kazakevičius	1993-03-26   1,92	Gynėjas	KK Lūšis	False	False
Petras	Adomavičius	1993-01-15   1,96	Gynėjas	Utenos Juventus	False	True
Algis	Roleika	1982-04-05   Treneris		2 100		
Daiva	Giraitė	1993-12-17   Masažuoto	ja			

2 camp info: Camp year: 2018 Camp start: 2018-07-10 Camp end: 2018-07-28

Tomas	Andriulis	1996-05-03	1,88	Puolėjas	Tauragės Tauragė	False   False	e
Jonas	Kazakevičius	1993-03-26	1,92	Gynėjas	KK Lūšis	False   False	e
Andrius	Jankūnas	1994-07-21	1,86	Įžaidėjas	Klaipėdos Neptūnas	False   False	e
Petras	Adomavičius	1993-01-15	1,96	Gynėjas	Utenos Juventus	False   True	1
Sigitas	Valeika	1980-11-11	Treneris		Y .		
Ramūnas	Nerkauskas	1983-08-23	Treneris				

### Console(2):

Nariai dalyvave	visose stovyklose:						
Nariu nera							
Visi dalyvave p	ouolejai:						
Nariu nera							
Vyr. treneriai:							
Nariu nera							
1-os stovyklos	dalyviai:						
Sigitas	Valeika	1980-11-11	Treneris		1		
Andrius	Jankunas	1994-07-21	1,86	Izaidejas	Klaipedos Neptunas	False	False
Dovile	Petrylaite	1995-07-18	Masazuoto		Kiaipeuos Neptunas	Taise	1 4136
Alvydas	Jogaila	1995-11-27	1,89	Gynejas	Alytaus Alita	False	True
Tomas	Andriulis	1996-05-03	1,88	Izaidejas	Taurages Taurage	False	False
2-os stovyklos	dalyviai:						
Algis	Roleika	1982-04-05	Treneris		ì		
Petras	Adomavicius	1993-01-15	1,96	Gynejas	Utenos Juventus	False	True
Jonas	Kazakevicius	1993-03-26	1,92	Gynejas	KK Lusis	False	False
Daiva	Giraite	1993-12-17	Masazuoto	oja	i	3.	
Alvydas	Jogaila	1995-11-27	1,89	Gynejas	Alytaus Alita	False	True
3-os stovyklos	daluwiai						
3-05 Stovykius	ualyvial:						
Sigitas	Valeika	1980-11-11	Treneris		T.		
Ramunas	Nerkauskas	1983-08-23	Treneris		i		
Petras	Adomavicius	1993-01-15	1,96	Gynejas	Utenos Juventus	False	True
Jonas	Kazakevicius	1993-03-26	1,92	Gynejas	KK Lusis	False	False
Andrius	Jankunas	1994-07-21	1,86	Izaidejas	Klaipedos Neptunas	False	False
Tomas	Andriulis	1996-05-03	1,88	Puolejas	Taurages Taurage	False	False

Rinktine.csv(2):

Žaidėjai pakviesti į	į rinktinę:
Narių nėra	

5.4. Dėstytojo pastabos