1. In a tabular format write the difference between collections and generic

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| --- | --- | --- |
| S.N.O | collections | generic |
| 1. Namespace 2. Element type 3. Type casting 4. Example | ArrayList is presented in system.collections  Object type  Required  ArrayList | System.collections is presented in system.collection generic  Int type,string type  Not required  List <string>,List<int> |

2.Research and find how the values of arraylist are stored in the memory

Ans. The elements of an arrayList are stored in a chunk of contiguous memory.when that memory becomes full, a larger chunk of contiguous memory has to be allocated (usually twice the size)and the existing elements are copied into this new chunk.we call this chunk the capacity of the arraylist object

3.what are the disadvantages of arraylist(collections arraylist)

* And run time error will appear there is a chance of giving wrong datatype
* Each value in object have to be unbox

4.Find how the values of list<T> are stored in the memory

In a list<T>, the memory to store the value types is within the memory allocated for the system array that is over here in a arraylist each element is just a reference to a boxed value type so the actual memory to store each value type is elsewhere on the “heap”that is somewhere over there

5.In a tabular form write all datatypes in c# write the respectively alias name

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| Data type name | Alias data type name |
| 1. byte 2. ushort 3. uint 4. ulong 5. sbyte 6. short 7. int 8. long 9. float 10. double 11. decimal 12. bool 13. char 14. string | Byte  ushort  UINT  ulong  SByte  Short  INT  long  single  Double  Decimal  Boolean  Char  String |