

Sample Inputs and Expected Outputs for Programming Assignment 3 – 2nd Edition

Sample input `binarian_message_2.txt`:

```
SoH Haup tera'nuv maHa 'abaD tlhInganA HuSD
+ yuQ chuqD 100000 wovben
'ea yuQ Xenu 'ea polagh HuSDa roj yong maHaDz 'u'
#-0000:11010:001010---%&*--111:0110--%&*--1010101
maHa yaj 'e' SoH 'abaD 'e law'D ral jeD qur
Segh SoH HoH Hoc manga pIzba' vay meq jeD QaH
nuvDa HeghD 'baD Hegha maHa tlhap'D 'oH SIvaD'
+ Hata 10001 poaD
maHaDzH 'baD tlhab maHaDz 'u' HuSD DuHa'D 'e qabDH
muta SoH parHa'Dgh 'baD 'ab law'aghD QIp jeD qalD
'baD waQaD' 'baD yInD SIvaD DuHa'D 'IHD'agh jeD
'IH yuQ maHaDz DujDagh luq tugh ghoS SoHDa yuQ jeD
muon SoH Sum Qo'D tob 'e' SoH 'abaD SIvaDagh machagh
vay'Dagh valz jeD luqD 'baD choHa nurDagh vaj maHa
#-00:1010111:0011010---%&*--111:01110
luq Qaw' SoHDa Segh 'b QaQ
'e'a message contains De' HuSDarg
maHaDz yuQ muon SoH vu' 'baD extract 'ea De'
jeD ngeH maHaD 'e roj message maHa might consider
#-0000:0001010----%&*--110011:0110
leaving SoH yong roj 'baD yInD SoHDa Haup lives
+ maHaDz yuQ bav'Do 1010011
```

Expected output for mission 1:

```
you pathetic earthlings we are binarians from
the planet Xenu the keepers of peace in our universe
we understand that you are a very violent and greedy
race you kill each other without any reason and let
people starve to death we took it upon
ourselves to free our universe from such a disgusting
species you seem to be too stupid and barbaric
to deserve to live on such amazing and
beautiful planet our spaceship will soon approach your planet and
if you do not prove that you are at least
somewhat intelligent and willing to change until then we
will destroy your race for good
this message contains information about
our planet if you manage to extract the information
and send us a peace message we might consider
leaving you in peace to live your pathetic lives
```

Expected output for mission 2:

```
Data about Binarian planet:
Distance from the Earth: 3.027424e+14 km
Planet temperature: 17.0 degrees Celsius
Orbital speed: 83.0 km/s
```

Sample input `peace_message_2.txt`:

```
Binarians, our fellow inhabitants of this universe, I greet you
in peace.
I have around 230 awesome students who sometimes drive me
crazy.
I give them all of the necessary material to study
before their lab sessions and quizzes, but
some of them still come unprepared. I really want
them not just to learn, but
also to
fall in love with programming, as I did 22 years ago. I do not
know what else to
do to make them more motivated. Some of them are very hard-working
and this makes me very happy. I just wish everyone
would have the same motivation.
Nevertheless, I like my students a lot. I love their sense of humor,
they make me
laugh, and I think they will be great engineers one day, once they
understand the importance of hard work. So, I
beg you not to kill us all. Give us more time, say 100 years, and
when you come back
you will see that we have changed and become better people.
```

Expected output for mission 3:

```
tlhInganA maHaDz rapar yInDar HuSDa 'e'a 'u' I SaHa SoH
yong roj
I ghaj around 11100110 awesome students 'Iva rut drive jIHa
maw'
I nobD chaH Hocha HuSDa 'ea 'utD material 'baD HaD
before their lab sessions jeD quizzes 'a
vayaD HuSDa chaH still ghoSa unprepared I really neHD
chaH Qo'D neHa 'baD ghoj 'a
je 'baD
pumb yong bang pIz programming as I did 10110 years ago I Sum Qo'D
Sov nuq else 'baD
Sum 'baD make chaH tInaD motivated vayaD HuSDa chaH 'abaD law'D hard-working
jeD 'e'a makes jIHa law'D Quch I neHa neHDargh Hoch
would ghaj 'ea rap motivation
Nevertheless I parHa' my students 'e lot I bang their sense HuSDa humor
bIH make jIHa
Hagh jeD I Qub bIH luq 'ab DunD engineers wa' jaj wa'logh bIH
yaj 'ea importance HuSDa let vum toH I
qoy'a SoH Qo'D 'baD HoH maHaD Hocha nobD maHaD tInaD poHa jatlh 1100100 years
jeD
ghorgh SoH ghoSa chap
SoH luq legh 'e' maHa ghaj changed jeD moj better nuvDa
```