I have a raw DNA file and I'm using a Python program to check my genotypes. Could you give me all the relevant SNPs to find out if I have any genetic risk for heart disease in a one-line space seperated format, so I can paste them into my program? I will then send you the results as SNPID: genotype pairs (e.g., rs123456: AG) in a single message. After that, I'd like you to analyze my results and tell me more about this condition based on my DNA data.

Sure! Here's a list of well-known heart disease-associated SNPs (based on GWAS studies and reputable sources like the NIH, 23andMe, and SNPedia) in a space-separated one-line format, ready to be used with your Python program:

nginx

rs10757274 rs10757278 rs11206510 rs12190287 rs12526453 rs1333040 rs1333049 rs1746

These SNPs are associated with various aspects of cardiovascular disease, including:

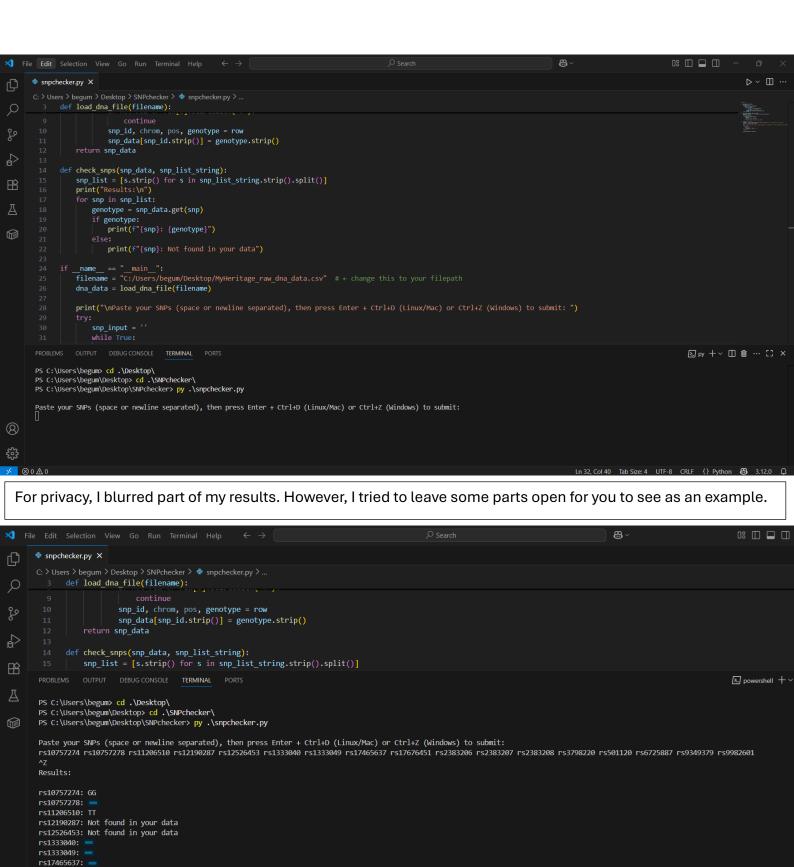
- Coronary artery disease (CAD)
- Myocardial infarction (MI)
- Lipid levels (LDL, HDL, triglycerides)
- Arterial calcification and inflammation

Once you run your program and send back the results in this format:

Ask anything

Tools

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rs17676451: Not found in your data

PS C:\Users\begum\Desktop\SNPchecker>

rs2383206: rs2383207: rs2383208: rs3798220: rs501120: rs6725887: rs9349379:

Copy code

I'll analyze your genotypes and interpret your **genetic predisposition to heart disease**, explaining:

- What your genotypes mean
- Whether they're associated with increased, decreased, or average risk
- The underlying mechanisms, where known (e.g. lipid metabolism, inflammation)

Let me know once you're ready to proceed!



rs10757274: GG

rs10757278:

rs11206510: TT

rs12190287: Not found in your data

rs12526453: Not found in your data

rs1333040:

rs1333049:

rs17465637:

rs17676451: Not found in your data

rs2383206:

rs2383207:

rs2383208:

rs3798220:

rs501120:

rs6725887:

_

rs9349379:

rs9982601:



Great, thank you for sending your genotype Here's a **comprehensive analysis** of your DNA data in relation to **heart disease risk**, based on peer-reviewed studies and SNPedia.

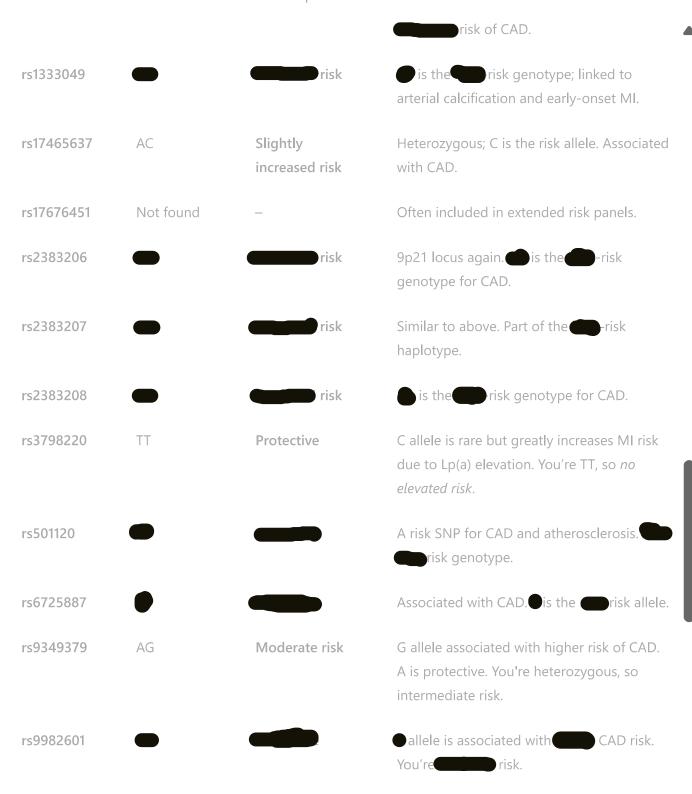
Ask anything

Great, thank you for sending your genotypes! Here's a **comprehensive analysis** of your DNA data in relation to **heart disease risk**, based on peer-reviewed studies and SNPedia.

SNP Analysis and Interpretation

SNP ID	Your Genotype	Effect on Heart Disease Risk	Notes
rs10757274	GG	Increased risk	Located near <i>CDKN2A/B</i> on 9p21. GG is the highest-risk genotype; associated with coronary artery disease (CAD).
rs10757278		risk	Also near <i>CDKN2A/B</i> . has strong evidence for risk of CAD and MI. Often used in polygenic risk scores.
rs11206510	TT	Decreased risk	Protective genotype. Affects <i>PCSK9</i> , a gene regulating LDL cholesterol levels. TT is associated with lower LDL and reduced CAD risk.
rs12190287	Not found	_	Associated with inflammation pathways; missing data.
rs12526453	Not found	_	Related to <i>PHACTR1</i> , affects vascular inflammation; missing data.
rs1333040		risk	Another 9p21 SNP; is associated with risk of CAD.
rs1333049		r [;]	is the risk genotype; linked to arterial calcification and early-onset MI.
Ask anythi	ng		

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Ask anything



- You carry multiple high-risk variants on chromosome 9p21, one of the strongest and most consistent genetic markers for coronary artery disease (CAD).
- However, you also carry several **protective variants**, especially *rs11206510-TT* (which affects LDL regulation via PCSK9) and *rs9982601-CC*.
- Overall, your genetic predisposition skews slightly toward increased heart disease risk, especially for early-onset coronary artery disease.
 But this does not mean you will develop heart disease—it just indicates your baseline genetic risk is above average.

What You Can Do (Regardless of DNA)

Genetics is only **one piece** of the puzzle. Here are some evidence-based steps to reduce heart disease risk:

- **Diet**: Mediterranean-style (rich in vegetables, olive oil, fish, nuts).
- Exercise: 150 min/week of moderate activity.
- Don't smoke.
- Control blood pressure, cholesterol, and glucose.
- Routine checkups, especially if there's family history.

Would you like a breakdown of your **polygenic risk score (PRS)** or a visual summary (like a graph or risk pie chart)? I can also tell you more about **9p21** or any gene involved.



Ask anything